

Digitized by the Internet Archive
in 2017 with funding from
CLIR

<https://archive.org/details/fieldnotesv161700smit>

General Index

J. I. Smith

1988-1991

Catalogue

Journal 1988-1989

Species Accounts

[illegible]

J. I. Smith

1988-1991

Catalogue #100-275

Smith, J.

1988

Catalog

1

JS 100

Song Sparrow Melospiza melodia

1 mi. W Hobart
M: 115 600 ft

Prosser Creek 3.3 mi S of Sagehen Creek Field Station

5840 ft

Nevada Co., Calif

28 June 1988. Huge cloacal protuberance 7mm

No brood patch, ~~Medium~~ ^{Little} Fat. Lots of glandular tissue

surrounding cloacal protuberance. Liver, heart, breast,

Kidney. Looks like dragon fly larvae in mouth 2 seen

Testes L 10.5 x 7.6mm R 8.5 x 7.5mm. Skin partial skel.

1 mi W Hobart Male ⁵⁸⁴⁰ ~~6000~~ ft

JS 101

Prosser Creek 3.3 mi S of Sagehen Field Station, Nevada Co., CA

Melospiza melodia fisherella. 29 June 1988. 20.65g

Cloacal protuberance 6.82mm. No brood patch. Little Fat.

Glandular tissue of protuberance. Liver, heart, muscle

Kidney taken. Crop empty. Testes R 7.87 x 6.98mm

L 9.21 x 6.23mm. Skin partial skel

JS 102

Melospiza melodia fisherella 29 June 1988. 21.4g

♂, no fat, SK. ossified. Crop empty T L 9.5 x 7.0mm

R 8.5 x 8.1mm. Tissue taken SK. oss. SK. partial skel

JS 103

Melospiza melodia fisherella 29 June 1988. 22.0g ♂ ^{ad.} SK. oss.

Cloacal protuberance 7.53mm. No brood patch. Crop empty.

Testes ~~♂~~ L 9.73 x 6.20mm; R 8.51 x 7.09mm. Tissue

taken. SK. partial skel. Little fat. ♀

JS 104

M. melodia fisherella ♀. 29 June 1988. wt. 18.7g. Non-vascular

brood patch. Ovary 7.6 x 5.5mm largest follicle = 6.7mm. Netted
with juvenile. JS 105. Net by Prosser Creek. No fat. Tissues taken

Smith, J

1988

Catalog

2

- Prosser Creek 3.3 mi S Sagehen Field Sta ⁵⁸⁴⁰ and 1 mi W Hoback Mills, ~~6000~~ ft Nevada Co., California
- J15105 Melospiza melodia fisherella juv. ♀ wt. 17.9g 29 June 1988
Little fat. Ovary 1.5 x 2 mm - pinkish. Netted with female
J15104. near stream. gape yellow. Tissues taken
- J15106 Melospiza melodia fisherella juv. ♀ wt 18.5gm sk. not oss.
Ovary 2.2 x 1.3 mm no fat. Gave buzzy calls in hand (not recorded)
29 June 1988 Tissues taken.
- J15107 Melospiza melodia fisherella ad ♂ 7.3 mm cloacal protuberance
wt. 20.0g. T: L 8.0 x 5.9; R 6.9 x 5.8. no fat,
29 June 1988 no brood patch. Tissues taken
- J15108 Melospiza melodia fisherella ♂ ad. sk. 29 June 1988 wt. 19.35g
T: L 8.68 x 6.02 mm; R 7.7 x 6.4 mm slight fat. no brood patch
Tissues taken
- J15109 Melospiza melodia fisherella ♂ ad sk cloacal protuberance 7.31 mm
29 June 1988 Testes L 8.72 x 6.25; R 8.09 x 6.81 mm. slt fat
wt 21.2g no brood patch. Tissues taken.
- ~~J15107 Melospiza melodia fisherella ♂ ad. 29 June 1988. no fat. wt. 20.0g
7.3 mm cloacal protuberance. Testes L 8.0 x 5.9 mm;
R - 6.9 x 5.8 mm.~~
- J15110 Melospiza melodia fisherella ♂ ad 30 June 1988. slight fat
cloacal protuberance 6.41 mm. Testes L 8.78 x 6.18 mm;
R 8.49 x 6.90 mm no brood patch. Tissues taken
- J15111 Melospiza melodia fisherella ♂ ad. 30 June 1988. slight fat
cloacal protuberance 7.16 mm. Crop empty. Testes L - 8.55
x 6.16 mm; R 8.02 x 6.98 mm. no brood patch. Tissues taken
- J15112 Melospiza melodia fisherella ♂ ad. 30 June 1988. slight fat
wt. ~~19.80g~~ 19.80g. cloacal protuberance 6.41. Testes L 7.80 x 5.84;
R 6.62 x 6.54 mm no brood patch. Tissues taken

Smith, J

1988

Catalog

3

5840

Prosser Creek, 3.3 mi S of Sagehen Field Station and 1 mi W of Hobart Mills, Nevada Co., Calif.

JIS 113 Melospiza melodia fisherella. ♂ ad. 30 June 1988. wt. 22.05g
slt fat. Cloacal protuberance 6.14 mm. Testes L 8.44 x 5.92 mm
R 6.54 x 7.11 mm no brood patch Tissues taken

JIS 114 Melospiza melodia fisherella. ♂ ad. 30 June 1988. wt 19.30g
slt fat. Cloacal protuberance 6.50 mm. Testes L 9.95 x 5.51;
R testes is damaged. no brood patch. Tissues taken.

JIS 115 Melospiza melodia fisherella. ♂ ad 1 July 1988. wt 19.25g
mod. fat. no brood patch. Cloacal protuberance 4.31 mm
crop empty. Testes L 9.10 x 6.36 mm; R 8.36 x 6.50 mm
Tissues taken poss note
JIS 116

JIS 116 Melospiza melodia fisherella ♀ ad sk 1 July 1988. wt 20.25g
Brood patch. mod. fat. Cloacal protuberance 4.35 mm.
Largest follicle 2.28 mm. Crop empty. Tissues taken. Poss. Male
JIS 115

JIS 117 Melospiza melodia fisherella. ♂ ad sk. ^{1 July 1988} wt 18.70. mod fat
Cloacal protuberance 4.59 mm. Testes L 8.55 x 5.93;
R 6.91 x 6.93 mm. No brood patch. Crop empty.
Tissues Taken

Alder Creek, 4 mi W Hobart Mills, 6100 ft
Nevada Co., California

JIS 118 Melospiza melodia fisherella ♀ ad. 2 July 1988. wt 20.8g
Little fat. Oviduct enlarged, active brood patch, ovary 8.4 x
5.3 mm, largest follicle = 1.5 mm. Tissues taken

JIS 119 Melospiza melodia fisherella. ♂ ad. 2 July 1988. wt 21.95g
cloacal protuberance 4.81 mm, no brood patch, Testes:
L 9.15 x 6.45 mm ad R 8.09 x 6.73 mm. Slt. Fat
Crop empty



Smith, J

1989

Catalog

4

Russell Tree Reservation, 2 mi NW of Lafayette, Contra Costa Co., Calif. 1300 ft

- J15120 Melospiza melodia gouldii ♀ ad. sk. 17 Mar 1989. wt —
left ovary  no broodpatch. mate of J15121. Tissue saved.
Stomach saved. Tail molt. Banded 2031-08906 / YL/FW^{wh} BK
Taken by Sharp-shinned Hawk in mist net. SKIN: partial skel.
- J15121 Melospiza melodia gouldii. ♂ ad sk. 17 Mar 1989 wt 19.5g
 testes, no broodpatch. mate of J15120. Tissue saved
Gonads and stomach saved. Tail molt. Taken by Sharp-
shinned Hawk while caught in mist net. SKIN: partial skel.
- J15122 Melospiza melodia gouldii ♂ ad. sk. 6 May 1989. wt 19.0g
left Testes 6.41 x 8.42 mm. cloacal protuberance 6.11 x 5.70 mm
mate of J15123. Banded 2031-08942 / YL/FW^{BL} WH
Sitting on 4 young of FW/BK's (J15130-131) nestlings
are J15124-127. Their young were raised by FW/BK's and are
J15128-9. Tissue saved but no kidney. cloacal
protuberance 6.11 x 5.70 mm stomach saved. SKIN: partial skel
- J15123 Melospiza melodia gouldii ♀ ad. sk. 6 May 1989. wt 15.5g
left ovary 6.49 x 3.17 mm. mate of J15122. cloacal
protuberance 3.66 x 3.64 mm. Tissue saved but no kidney.
Raised 4 nestlings (J15124-7) of FW/BK's. Her actual
young are J15128-9 which were raised by J15130-131.
Banded 2031-08941 / YL/FW^{PK} YL. stomach saved. SKIN: partial skel
- J15124 Melospiza melodia gouldii imm. (~9 days) 6 May 1989
wt. 12.5g. cloacal protuberance 2.5 x 3.89 mm. Tissue
saved but no kidney. stomach saved. Nestling of J15130-131
but reared by J15122-123. Banded 2031-08940 / YL/FW^{wh} BK
sib of J15125-127. SKIN: partial skel.

5th April
Hague
WJH

Smith, J
1989

Catalog

5

Russell Lee Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif 1388ft

J15125 Melospiza melodia gouldii imm. ^{~9 days} 6 May 1989. wt 13.0g

Nestling of J15130-131 but reared by J15122; 123. Sib of

J15124 126-7. Tissue saved but no Kidney ^{Banded 2031-08939} 4/4 FW ^{RO/WH} SKIN; partial skull. Stomach saved.

J15126 Melospiza melodia gouldii imm. ^{~9 days} 6 May 1989. wt 14.5g

nestling of J15130; 131 but reared by J15122; 123. Sib of J15124-5

and 127. Tissue saved but no Kidney. ^{Banded 2031-08939} 4/4 FW ^{OK} SKIN; partial skull. Stomach saved.

J15127 Melospiza melodia gouldii imm. ^{~9 days} 6 May 1989. wt 14.0g

nestling of J15130; 131 but reared by J15122; 123. Sib of J15124-126.

Tissue saved but no Kidney, stomach saved. ^{Banded 2031-08940} 4/4 FW ^{OK} SKIN; partial skull.

J15128 Melospiza melodia gouldii imm. ^{~9 days} 8 May 1989. wt 14.5g.

nestling of J15122; 123 but reared by J15130; 131. Sib of J15129.

Tissue saved. cloaca 3.20 x 4.47 mm. Wing length 35.91

10's emerged 12.25 mm. Back feathers 17.04 mm emerged 10.94 mm

Only 1 ulna saved, both tibia broken. Stomach saved.

Banded 2031-08947 / FW/BK ^{OK} SKIN and partial skull.

J15129 Melospiza melodia gouldii imm. ^{~9 days} 8 May 1989. wt 13.75g

nestling of J15122; 123 but reared by J15130; 131. Sib of J15128.

Tissue saved. Stomach saved. cloaca 4.12 x 3.75 mm

wing length 39.13 third from outer 10's emerged 15.63 mm. Back 16.28 mm

12.14 emerged. On left side 3 10's pulled out during prep. Only one 1

ulna saved. SKIN; partial skull. Banded 2031-08946 / FW/BK ^{OK} SKIN

J15130 Melospiza melodia gouldii ♀ ad sk. 8 May 1989. wt. 16.75g

left wing 5.69 x 7.08 mm. Brood patch present. mate of J15131.

clonal protuberance 4.59 x 4.95 mm. Tissue saved. Stomach

saved. Reared J15128-129, but parent of J15124-127.

SKIN; partial skull. wing length 53.06, Tail length 57.32 mm, Tarsus 18.17, Middle toe 18.06,

hallux with claw 13.53, Bill length 8.06, Bill depth 5.55, Bill width 4.66, Brood patch ^{NO} molt.

6

J12134 Melospiza melodia chrysolaema imm ♂ June 1989. wt 12.50g
Cloaca 5.65 x 3.16 mm. Tissue saved. Stomach squashed. Banded
2031-08959, rt leg yellow. Nestling of J15 137 + 138; settling of
J15 133, + 135-6. Bill length 4.25 mm, Bill depth 3.76 mm, Bill width 3.09 mm,
wing length 31.98 mm, Tail length 5.31 mm, tarsus 16.46 mm, middle toe 20.05 mm,

with, J

1989

Catalog

7

Sagehen Creek Field station, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft.

JIS 134
(cont.)hallux with claw 11.42 mm, molt: 3rd 1° $\frac{4.69}{21.03}$ mm, Back $\frac{7.15}{12.12}$ mm
+ belly $\frac{3.90}{7.06}$ mm. Skin + partial skeleton.

JIS 135

Melospiza melodia fisherella imm. 2 June 1989. wt. 14.50 gms.cloacal protub. 4.47 x 3.65 mm. Tissue saved, stomach saved. Left tibia broken. Banded 2031-08958, Rt. leg yellow. Nestling of JIS 137 + 138, sibling of JIS 133-4 + 136. Bill length 4.92 mm, Bill depth 3.78 mm, Bill width 3.61 mm, wing length 36.15 mm, Tail length 7.71 mm, Tarsus 18.31 mm, Middle toe 20.34 mm, hallux with claw 12.36 mm. Molt: 3rd 1° $\frac{5.98}{25.07}$ mm, Back $\frac{8.20}{13.70}$, belly $\frac{7.01}{9.70}$. Skin + partial skeleton.

JIS 136

Melospiza melodia fisherella imm. ♂? 2 June 1989. wt. 12.25 gms.

cloaca 4.26 x 4.26 mm. Tissue saved, stomach saved. Testes?

left 2.81 x 1.38 mm, Rt. 1.93 x 1.16 mm. Banded 2031-08960, Rt. leg yellow. Nestling of JIS 137 + 138, sibling of JIS 133-5. Bill length 5.08 mm, Bill depth 3.52 mm, Bill width 3.58 mm, wing length 35.75 mm, Tail length 6.52 mm, Tarsus 18.49 mm, Middle toe 22.27 mm, hallux with claw 12.31 mm. Molt: 3rd 1° $\frac{6.81 \text{ emerged}}{24.53}$ mm, Back $\frac{6.92}{12.46}$ mm, Belly $\frac{6.52}{9.09}$ mm. Skin + Partial skeleton.

JIS 137

Melospiza melodia fisherella ad. sk. ♂. 2 June 1989. wt. 19.00 gms.

Cloacal protuberance 6.23 x 5.51 mm. Tissue saved, stomach saved.

Testes: left - 7.36 x 5.31, Rt. - 7.16 x 7.22 mm. Mate of JIS 138, parent of JIS 133-6. Banded 2031-08920 $\frac{1}{2}$ FW BK $\frac{1}{2}$ GR. Tissue saved, Stomach saved. Bill length 7.28 mm, Bill depth 5.97 mm, Bill width 5.33 mm, wing length 65.65 mm, Tail length 69.20 mm, Tarsus 17.91 mm, Middle toe 19.08 mm, hallux with claw 13.92 mm. No molt, No broodpatch, No fat. Skin + Partial skeleton.

JIS 138

Melospiza melodia fisherella ♀ ad. sk. 2 June 1989. wt. 18.25 gms.cloacal protub. 4.34 x 2.89 mm. Tissue saved, stomach saved - parasite saved with stomach, it was found in the body cavity. Ovaries: left - 6.29 x 4.28 mm. Banded 2031-08953 $\frac{1}{2}$ FW $\frac{1}{2}$ BK RD. Bill length 8.62 mm, Bill depth 6.04 mm,

Smith, J

1989

Catalog

8

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft.

JIS 138 (cont) Bill width 4.65 mm, wing length 62.77 mm, Tail length 66.99 mm, Tarsus 19.16 mm, Middle toe 17.95 mm, hallux with claw 14.93 mm. No molt, Broodpatch present, No fat. Skin + Partial skeleton. Mate of JIS 137. Parent of JIS 133-6.

Russell Fire Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif., 1300 ft.

JIS 139 *Melospiza melodia gouldii* 9 days old. 4 June 1989. wt. 13.00 gms. sex? Cloaca 4.42 x 3.42 mm. Tarsus saved, stomach saved, tibia broken. Banded 2031-08957 left leg + rt leg ^{SK/PK}. Parents are PK/FW BF ^{JIS 164} RD ♀ ad PK/FW BL ^{JIS 160} BK ♂ (FWS # 2031-08908 ♂ + 2031-08926 ♀)

(with one other egg)
But this chick was transferred as egg to Sagehen Creek Field Station 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft on 25 May 1989 (see field notes.) I collected this individual from foster parents ^{JIS 176} YL/RO ^{W/B} FW ♂ and ^{JIS 173} BL/BK ^{W/B} FW (FWS # ~~2031~~ 14513 ♂ + 2031-08954 ♀)

Bill length 4.66 mm, Bill depth 3.53 mm, Bill width 3.18 mm, wing length 31.10 mm, Tail length 4.33, Tarsus 19.26 mm, Middle toe 17.76 mm, hallux with claw 12.19 mm. Molt: 3rd 10 1.62 mm / 20.33 mm, Back 5.77 / 9.55 mm, belly 6.89 / 13.79.

Skin + Partial skeleton. Light prealar fat.

JIS 140 *Melospiza melodia gouldii* imm. sex? 9 June 1989. wt. 18.50 gms. Cloaca 3.00 x 1.55 mm. Tarsus saved, stomach (cut in half) saved -- had many seeds with one crumpled green beetle elytra. 2 ticks found on rt. side of head were saved with stomach. Banded 1431-14522 left leg, rt. leg ^{PK/BK}. Young of ^{JIS 150} FW/BL PK/BK ♂ ad FW/BL YL/RO ♀ (FWS # 2031-08917 ♂ + 2031-08916 ♀) Reared by ^{PK/FW} BK/RO ♀ ad ^{PK} FW/BL/BK ♂ (FWS # 2031-08908 ♂ + 2031-08936 ♀) Bill length 8.35 mm, Bill depth 5.56 mm, Bill width 4.75 mm, wing length 57.04 mm, Tail length 56.43 mm, Tarsus 17.41 mm, Middle toe 19.26 mm, hallux with claw 13.58 mm, Molt: lacking belly feathers, Much fat. Skin and Partial skeleton. Sib JIS 157

Smith, J

1989

Catalog

9

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 16300 ft.

JIS 141 *Melospiza melodia fisherella* imm. ♀? 11 June 1989. wt. 15.50 gms.
 Young of JIS 145 + 146, sib of JIS 142-144. Tarsus saved, stomach saved. Ovary: 2.42×0.91 mm. Cloaca 5.39×3.51 mm. Bill length 5.20 mm, Bill depth 4.07 mm, Bill width 3.94 mm, Wing length 36.86 mm, Tail length $\frac{2.65 \text{ emerged}}{8.67}$ mm, Tarsus 18.85 mm, Middle toe 20.66 mm, Hallux with claw 13.01 mm. Molt: 3rd 1° $\frac{11.53 \text{ emerged}}{27.24}$ mm, back $\frac{10.86}{13.33}$ mm, $\frac{10.36}{13.83}$ mm. Body. Much furcular and shoulder fat. Skin + Partial skeleton.

JIS 142 *Melospiza melodia fisherella* imm. ♂? 11 June 1989. wt. 15.00 gms.
 Parents are JIS 145 + 146, sib of JIS 141 + 143-4. Tarsus saved, stomach saved. Testes?: left 2.41×1.27 mm, RT 2.01×1.02 mm. Cloaca 3.88×4.57 mm. Bill length 5.65 mm, Bill depth 4.27 mm, Bill width 4.04 mm, Wing length 38.29 mm, Tail length $\frac{3.00 \text{ emerged}}{11.26}$ mm, Tarsus 18.24 mm, Middle toe 22.02 mm, Hallux with claw 12.96 mm, Molt: 3rd 1° $\frac{14.24 \text{ emerged}}{28.16}$ mm, Back $\frac{9.78}{17.01}$ mm, + Belly $\frac{11.68}{15.85}$ mm. Some pure fat. Skin + Partial skeleton.

JIS 143 *Melospiza melodia fisherella*. imm. ♂? 11 June 1989. wt. 13.50 gms.
 Parents are JIS 145 + 146, sib of JIS 141-2 + 144. Tarsus saved, stomach saved. Testes?: left 0.90×0.80 mm, RT 1.03×0.91 mm. Cloaca 4.91×3.52 mm. Bill length 5.49 mm, Bill depth 4.05 mm, Bill width 4.08 mm, Wing length 37.89 mm, Tail length $\frac{3.07 \text{ emerged}}{11.89}$ mm, Tarsus 18.74 mm, Middle toe 22.47 mm, Hallux with claw 13.42 mm, Molt: 3rd 1° $\frac{13.32 \text{ emerged}}{27.68}$ mm, Back $\frac{10.57}{14.91}$ mm, + Belly $\frac{9.67}{13.50}$ mm. Much furcular fat. Skin + Partial skeleton.

Smith, J

1989

Catalog

10

~~Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co, Calif, 6300 ft~~

JIS 144 *Melospiza melodia fischerella*. imm ♂? 11 June 1989. wt. 13.00gms.
 Testis saved, stomach saved. Testes?: left - 1.83×0.92 mm +
 Rt. - 2.10×1.65 mm. Skin + Partial skeleton. Parents are JIS 145 + 146,
 sib of JIS 141-143.

JIS 145 *Melospiza melodia fischerella* ♀ ad. sk. 11 June 1989. wt. 17.00gms.
 Mate of JIS 146, Parents of JIS 141-144. Immune saved, stomach
 saved. Ovary: left - 7.27×4.31 mm, largest follicle 1.91 mm. Cloaca
 2.70×3.31 mm. Bill length 8.23 mm, Bill depth 6.08 mm,
 Bill width 5.22 mm, Wing length 59.65 mm, Tail length 60.18 mm,
 Tarsus 18.95 mm, Middle toe 21.86 mm, Hallux with claw
 15.67 mm, Molt - Right outer tail feather broken, No fat,
 Broodpatch present. Skin + Partial skeleton.

JIS 146 *Melospiza melodia fischerella* ♂ ad. sk. 11 June 1989. wt. 19.00gms.
 Mate of JIS 145, parent of JIS 141-144. Banded FW/wh BL/BK (FW 5#
 2031-08930). Immune saved, stomach saved. Testes: Rt $7.42 \times$
 5.93 mm + left 10.13×4.47 mm. Cloaca 7.70×8.32 mm. Bill
 length 8.94 mm, Bill depth 6.04 mm, Bill width 5.11 mm, Wing length 62.57 mm,
 Tail length 67.29 mm, Tarsus 18.28 mm, Middle toe 21.27 mm,
 No molt, No fat, No broodpatch. Skin + Partial skeleton.

~~JIS 147 Russell Tree Reservoir, 2 mi NW Lafayette, Contra Costa Co, Calif, 1300 ft~~

JIS 147 *Melospiza melodia gouldii* fledgling sk. immos. 15 June 1989. wt. 17.50gms.
 Immune saved, stomach saved, tape worm-like parasite found in kidney
 saved with stomach. Bill length 8.24 mm, Bill depth 5.31 mm, Bill width
 4.28 mm, Wing length 53.94 mm, Tail length 58.82 mm, Tarsus 17.32 mm,
 Middle toe 18.63 mm, Hallux with claw 14.00 mm, Molt - only 10 Tail
 feathers, belly feathers only just coming in. Much furcular + sternal fat.
 Skin + Partial skeleton.

with, J

1989

Catalog

11

Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., Calif., 6300 ft

JIS 148 *Melospiza melodia fisherella* fledgling ♂? 22 June 1989. wt 20.00gms.
Parents are FW/BR ^{JIS 168} RD/OR ♂ and FW/BR ^{JIS 171} BL/YR ♀ (FWS# 1431-14512 ♂ + 1431-14516 ♀) reared by ^{JIS 172} BL/FW GR/OR ♀ and ^{JIS 172} BL/FW PK/BL ♂ (FWS# 2031-08921 ♂ + 2031-08949 ♀.) Sibling of JIS 149.
Banded 2031-08955 left leg, Y/BK R+ leg. Tissue saved, stomach saved, Tongue cut. Testes? left 1.71 x 0.90 mm + Rt - 1.44 x 0.87 mm.
Bill length 7.25 mm, Bill depth 5.22 mm, Bill width 4.63 mm, Wing length 65.44 mm.
Tail length ^{49.58 mm} ~~58.98 mm~~, Tarsus 17.87 mm, Middle Toe 20.12 mm, Hallux with claw 13.54 mm, cloaca 3.73 x 2.90 mm. Molt: Tail not fully emerged, 10's not fully emerged. Very Fat, Skin + partial skeleton.

JIS 149 *Melospiza melodia fisherella* ♂? Fledgling 22 June 1989. wt. not taken
Sibling of JIS 148, Parents are ^{JIS 168} FWS# 1431-14512 + ^{JIS 171} 1431-14516) reared by ^{JIS 172} 2031-08921 + 2031-08949. Banded 2031-08956
Tissue saved, stomach saved, only R+ Tarsus saved.
Gonads? left - 1.20 x 0.92 mm; Rt - 1.22 x 0.94 mm.
Bill length - shot ... wing length 66.01 mm, Tail length 59.85 mm
Tarsus 17.66 mm, Middle Toe 21.27 mm, hallux with claw 13.51 mm
cloaca 5.21 x 3.51 mm. Molt. Tail not fully emerged. ^{SKIN +} ^{PARTIAL} ^{SKEL.}

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif., 1300 ft

JIS 150 *Melospiza melodia gouldii* ♂ ad. sk. 14 July 1989. wt. 19.00gms.
Reared JIS 155 but parent of JIS 140. Banded ^{JIS 17} FW/BL ^{PK} 16R 2031-08917
Tissue saved, stomach saved, tongue saved. Gonads: left - 2.87 x 1.55 mm + Rt - 2.38 x 1.00 ^(?). Head + left leg shot. Bill length 10.11 mm, Bill depth 5.96 mm
Bill width 5.26 mm, wing length 58.15 mm, Tail length 57.55 mm, Tarsus 18.08 mm
middle toe 20.17 mm, hallux with claw 14.85 mm, cloaca 3.75 x 6.43 mm.
Molt: Primaries 1-4 emerging, 4th incomplete pin, tail molt except for Rt #2, belly molt.
Slight FAT. SKIN + partial skel.

1989

Catalog

12.

Russell Tree Reservoir, 2 mi NW Lafayette, Contra Costa Co., California, 1380ft

JIS 151

Melospiza melodia gouldii. Hux SK. wind. sex ♂ wt. 19.00 gms.

Fledgling of ♂ 2031-08902 ^{GR/FW} ^{OR/BK} + ♀ 2031-08943 ^{BL/FW} ^{PO/OR} reared by ♂ 2031-08910 ^{OR/FW} ^{BL/RO}.

Banded 2031-08951 ^{OR/FW} ^{BL/X}. 16 July 1989. Tissue saved, stomach saved; gonads: left - 2.13 x 1.53 mm + RT - 2.00 x 1.43 mm. Bill length 8.23 mm, Bill depth 5.66 mm, Bill width 4.97 mm, wing length 55.30 mm, Tail length 56.95 mm, Tarsus 19.03 mm, middle toe 18.92 mm, hallux with claw 13.80 mm, cloaca 3.37 x 3.37 mm. Molt - upper + under wing coverts, tail coverts, belly and back. Mod. Fat. SKIN + partial skel.

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California, 6300ft

JIS 152

Melospiza melodia fisherella. sex? Fledgling. 28 July 1989. wt. 16.50 gms.

Sibling of JIS 153; Banded 2031-08990 left ad Red RT. Parents are ♂ ^{JIS 175} ^{BF/WH} ^{RD/FW} 2031-08932 + ♀ 2031-08952 ^{OR/YL} ^{RD/FW} ^{JIS 169}.

Tissue saved, + stomach saved. Gonads not found. RT Tibia broken. Tissue was in body for > 4 hours after death. Bill length 7.45 mm, Bill depth 5.27 mm, Bill width 4.34 mm, wing length 62.08 mm, Tail length* 55.36 mm, Tarsus 20.01 mm, Middle toe 19.75 mm, Hallux with claw 14.92 mm, cloaca 3.75 x 2.54 mm. * Molt - upper tail coverts, tail, underwing coverts. No FAT. SKIN + Partial skel.

JIS 153

Melospiza melodia fisherella. SK. unoss. Fledgling ♂. 29 July 1989. wt 22.00 gms.

Sibling of JIS 152, Parents are ♂ ^{JIS 175} 2031-08932 + ♀ ^{JIS 169} 2031-08952. Banded 2031-08989

right + Red left. Tissue + stomach saved. Gonads: left - 1.30 x 0.65 mm + RT - 1.20 x 0.92 mm. Bill length 7.75 mm, Bill depth 5.52 mm, Bill width 4.85 mm, wing length 66.79 mm, Tail length* 55.07 mm, Tarsus 18.10 mm, middle toe 22.48 mm, hallux with claw 14.94 mm, cloaca 4.85 x 2.20 mm. Molt* - underwing coverts + tail. Moderate Funicular Fat. Left leg shot. SKIN + Partial skel.

JIS 154

Melospiza melodia fisherella. ♂ fledgling. 29 July 1989. wt. 21.00 gms.

Unbanded. Tissue + stomach saved. Only RT tibia saved. ~~Bill length~~

with, J
1989

Catalog

13

Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., California 6300 ft
JIS 154 (cont.) Gonads: Rt - 1.12×0.82 mm + Lt - 0.72×0.48 mm. Left leg shot.
Bill length 7.75 mm, Bill depth 6.08 mm, Bill width 5.33 mm, Wing length 66.61 mm,
Tail length* 66.89 mm, Tarsus 19.75 mm, Middle Toe 19.59 mm, Hallux with
claw 14.79 mm, Cloaca 3.53×3.00 mm. Molt* - tail not fully emerged.
Slight Fat. Skin + Partial Skel.

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., California 1300 ft
JIS 155 Melospiza melodia gouldii imm. ♀. large sk. wind. 3 August 1989. wt 18.00 gm.
Banded 1431-14519 left + Bl/Rt, North of PK/FW Bl/BK ♂ 2031-08908 + ♀
PK/FW Bl/Rt 2031-08936, but reared by 2031-08916 + 2031-08917 (JIS 156).
Gonads left away 3.27×1.63 mm. Crop full of Chick scratch. Bill length 8.69 mm,
Bill depth 5.62 mm, Bill width 5.18 mm, Wing length 54.87 mm, Tail length 54.87* mm,
Tarsus 18.27 mm, Middle Toe 18.77 mm, Hallux with claw 15.65 mm, Cloaca
 3.64×1.46 mm. Molt - 8th primary, tail + coverts, head, back + belly.
Skin + partial skel. Tissue + stomach saved.

JIS 156 Melospiza melodia gouldii imm. (Young of Year) ♂. 10 August 1989. wt. 21.50 gm.
Banded 1431-14517 left + Bl/PK right. North of ♀ 2031-08933 Bl/FW OR/PK +
♂ 2031-08904 Bl/FW RO/PK. Tissue saved + stomach saved. Gonads:
Lt - 0.78×0.78 mm + Rt - 0.92×0.75 mm. Left Tibia Broken. Bill length 7.88 mm,
Bill depth 5.76 mm, Bill width 4.92 mm, wing length 55.79 mm, Tail length 64.08 mm.
Tarsus 17.50 mm, Middle Toe 19.80 mm, Hallux with claw 13.58 mm, Cloaca
 3.59×5.59 mm, Molt - Under + upper wing coverts, Primaries 7-9 are $\frac{1}{2}$ emerged,
Tail coverts, Right side of tail 3rd feather from outside $\frac{1}{2}$ emerged, 1st outer feather
shot slightly in pin, left side of tail fully emerged. Much Fat. Skin + Partial Skel.

JIS 157 Melospiza melodia gouldii ♀ imm. large skull. windows. 12 August 1989 wt 19.00 gm.
Banded 1431-14521 left + PK/BK right (reared by JIS 160 ♂). Parent
is JIS 190 ♂ + sib of JIS 140. Tissue + stomach saved. Left ovary
 0.92×0.81 mm. Bill length 8.76 mm, Bill depth 5.66 mm, Bill width 4.85 mm.

Smith, J.

1989

Calatby

14

~~Russell Lake Reservoir, 2 mi NW Lafayette, Contra Costa Co., California, 1300 ft~~

J15157 (crit) Wing length 60.44 mm, Tail length 59.7 mm, Tarsus 18.68 mm, Middle Toe 18.60 mm, Hallux with claw 14.07 mm, Cloaca 2.79 x 3.21 mm, Molt - left outer tail feather just a little bit of 5 left left. Much fat. Skin + partial skel.

J15158 Melospiza melodia gouldii ♀? imm. lay sk. wind. 12 Aug 1989 wt. 20.00 gms. Unbanded. Ovaries and uterine short. Tissue + Stomach saved. Bill length 8.40 mm, length 5.67 mm, Bill width 4.83 mm, Wing length 56.26 mm, Tail length 58.59 mm, Tarsus 18.16 mm, Middle Toe 19.7 mm, Hallux w/ claw 13.70 mm, Molt - underwing + tail coverts + back. Some fat. SKel. Only.

J15159 Melospiza melodia gouldii ♀ imm lay sk. wind. 15 August 1989. wt 17.50 gms. Unbanded. Ovaries - 3.59 x 1.72 left ovary Tissue (in body 2 hrs after death) + Stomach saved. Bill length 8.71 mm, Bill depth 5.70 mm, Bill width 4.89 mm, Wing length 53.85 mm, Tail length * 55.31 mm, Tarsus 17.28 mm, Middle Toe 18.34 mm, Hallux with claw 13.45 mm, Cloaca 4.14 x 3.20 mm. Molt - 7th + 8th primary are 7/8's emerged, tail ^{coverts} ~~emerged~~, underwing coverts, tail 7/8's out. Much fat. Skel. only.

J15160 Melospiza melodia gouldii ♂ ad. sk. 17 August 1989. wt 20.50 gms. Banded 2031-08908 PK/KW BL/BK. Parent of J15155 ^{+ J15159. Mate of} but J15164 reared J15157 + 140. Tissue + stomach saved (in body 4 hrs after death) Ovaries left - 1.93 x 1.56 mm + rt 1.64 x 1.43 mm. Bill length 8.82 mm, Bill depth 5.95 mm, Bill width 4.77 mm, Wing length * 58.75 mm, Tail length 59.73 mm, Tarsus 19.68 mm, Middle Toe 17.98 mm, Hallux with claw 13.53 mm, Cloaca 2.87 x 5.61 mm. Molt - wing + coverts, outer tail feathers, back + belly. Some fat. Skin + Partial skel.

1989

Catalog

15

~~Russell Free Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif 1300 ft~~

- J15161 Melospiza melodia gouldii ♀? imm. Huge sk. wind. 17 August 1989. wt. 17.00 gms. Unbanded. Testis + stomach saved. Gonads - left ovary 3.57×1.57 mm. Bill length 7.97 mm, Bill depth 5.72 mm, Bill width 4.74 mm, Wing length 56.11 mm, Tail length 59.64 mm, Tarsus 17.73 mm, Middle toe 18.40 mm, Hallux with claw 14.22 mm, Cloaca 3.72×3.72 mm. Molt Primaries 7-9 in pin, Belly + Back. Some Fat. Skel. Only.
- J15162 Melospiza melodia gouldii ♀ adsk. 17 August 1989. wt. 18.00 gms. Bill shot. Bill depth 8.92 mm, Wing length 57.53 mm, Tail length 60.06 mm, Tarsus 18.13 mm, Middle toe 17.68 mm, Hallux with claw 14.70 mm, Cloaca 3.08×3.48 mm. Molt - Primaries 7-9 + secondaries, outer tail, belly + back. Much Fat. Skel. Only. left ovary 4.64×2.39 mm
- J15163 Melospiza melodia gouldii ♀ adsk. 18 August 1989. wt 19.50 gms. Banded 2031-08933 BL/FW OR/YL. Parent of J15156. Mate of J15166. Both Tarsi broken. Testis + stomach saved. left ovary 3.83×1.81 mm. Bill length 9.13 mm, Bill depth 5.78 mm, Bill width 4.88 mm, Wing length 55.57, Tail length 60.46 mm, Tarsus 17.56 (rt leg), middle toe 19.41 (rt leg), hallux with claw 13.56 mm (rt leg), Cloaca 4.72×3.70 mm. Molt - Primaries 7-9 emerging from pin, tail coverts, back, under and upper wing coverts + head. Much fat. Skin + Partial skel.
- J15164 Melospiza melodia gouldii ♀ adsk. 21 August 1989. wt 20.00 gms. Banded 2031-08936 PK/FW BK/RO. Parent of J15139 + J15155, Reared J15157 + 140. Mate of J15160. Testis + stomach saved. left leg shot. Bill length 9.42 mm, Bill depth 5.60 mm, Bill width 4.96 mm, Wing length 54.90 mm, Tail length* 59.53 mm, Tarsus 18.00 mm, middle toe 19.76 mm, hallux with claw 14.15, cloaca 3.50×4.23 mm, left ovary 4.97×2.7 mm, Molting:

Smith, J

1989

Catalog

16

~~Russell Tree Res. 2mi NW Lafayette, Contra Costa Co. California 1300ft~~

JIS 164 (cont) Primaries #1 + 6-8, 1st secondary, all tail + coverts, belly, back + head. Some fat. SKin + Partial spel.

JIS 165 Melospiza melodia gouldii BadsK. 21 August 1989. wt 20.00gms
Banded 2031-08902 ^{6H}/FW ^{OR}/BK, Parent of JIS 151. Testes:
L - 2.09 x 1.15mm + R - 1.97 x 1.34mm. Intestine + stomach saved
Bill length 9.21mm, Bill depth 5.88mm, Bill width 5.17mm, wing length*
60.45mm, Tail length* 63.98mm, Tarsus 17.66mm, Middle Toe 19.41mm,
hallux with claw 15.02mm, cloaca 2.78 x 2.71mm, Molting: Primaries
6-9 + secondaries, outer left tail, belly, back + head. Much fat.
SKin + Partial spel.

JIS 166 Melospiza melodia gouldii BadsK. 23 August 1989. wt 22.00gms.
Banded 2031-08904 ^B/FW RD/BR, Parent of JIS 156, mate of JIS 163.
Testes: L - 1.55 x 1.63mm + R - 1.84 x 1.52mm. Rt leg shot. Intestine +
stomach saved. Bill length 8.66mm, Bill depth 5.64mm, Bill width 4.88mm,
Wing length* 59.80mm, Tail length 64.74mm, Tarsus 19.62mm, Middle toe
18.01mm, Hallux with claw 13.69 (left), cloaca 3.00 x 3.70mm.
Molting: back, belly, Primaries 9-7 + Secondaries 1-3. Some fat
skin + partial spel.

~~Seeghen Creek Field Station, 3mi NW Hobart Mills, Nevada Co. Calif. 6300ft~~

JIS 167 Melospiza melodia fisherella BadsK. 28 August 1989. wt 25.00gms.
Banded 1431-14511 ^{FW}/BK ^{TL}/BR. Intestine + stomach saved. Testes:
L - 1.50 x 0.96mm + R - 2.09 x 1.43mm. Left leg shot. Bill length 9.27mm
Bill depth 6.19mm, Bill width 5.35mm, Wing length* 63.26mm, Tail length* 70.84mm,
Tarsus 19.54mm, Middle Toe 18.24mm, hallux with claw 14.72mm, cloaca
3.28 x 2.78mm, Molting: Primaries 6-8, 1-2 secondaries, only 8 tail
feathers, head, belly + back. Some fat. SKin + Partial spel.

Smith, J
1989

Catag

17

Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., Calif. 6388 ft

J15168 Melospiza melodia fisherella ♂ ad. sk. 28 August 1989. wt 23.00 gms

Banded 1431-14512 ^{FW/BR} ^{RO/BR}. Mate of J15171, Parent of J15149 + 148. Tarsus + stomach saved. Testes: L - 2.88 x 2.08 mm + R - 1.26 x 1.09 mm. Bill length 8.64 mm, Bill depth 5.94 mm, Bill width 5.01 mm, wing length* 63.75 mm, Tail length* 69.51 mm, Tarsus 17.41 mm, Middle toe 19.28 mm, hallux with claw 13.31 mm, cloaca 3.08 x 3.69 mm. Molting: Primaries 5-7, secondaries 1-2, tail, back, belly + head. Much fat. Skin + Partial skel.

J15169 Melospiza melodia fisherella ♀ ad. sk. 29 August 1989. wt 21.50 gms

Banded 2031-08952 ^{OR/YL} ^{RO/FW}, Mate of J15175, Parent J15152 + 153. Tarsus + stomach saved. ~~Testes~~ left ovary 3.58 x 2.32 mm, Bill length 9.35 mm, Bill depth 6.33 mm, Bill width 5.18 mm, Wing length* 63.38 mm, Tail length* 68.68 mm, Tarsus 17.59 mm, Middle toe 21.50 mm, hallux with claw 15.25 mm, cloaca 3.78 x 3.34 mm, Molting: Primaries 7-9, secondaries 1-2, tail, back, belly + head. Some fat. Skin + Partial skel.

J15170 Melospiza melodia fisherella ♂ ad. sk. 29 August 1989. wt 21.00 gms

Banded 2031-08922 ^{BR/FW} ^{YL}. Tarsus + stomach saved. Testes left - 1.53 x 1.39 mm + R - 1.58 x 1.35 mm, Bill length 8.84 mm, Bill depth 6.27 mm, Bill width 5.32 mm, Wing length* 65.27 mm, Tail length 70.49 mm, Tarsus 18.12 mm, Middle toe 20.84 mm, hallux with claw 14.57 mm, cloaca 2.89 x 3.41 mm, Molting: Primaries 7-9, secondaries 5-7, belly, back + head. No tail molt. Slight Fat. Skin + Partial skel.

J15171 Melospiza melodia fisherella ♀ ad. sk. 29 August 1989. wt 20.00 gms.

Banded 1431-14516 ^{FW/BR} ^{BL/YL}, Mate of J15168, Parent of J15148 + 149. Tarsus + stomach saved, left ovary 4.16 x 2.41 mm, Bill length 8.54 mm, Bill depth 6.42 mm, Bill width 5.26 mm, Wing length* 62.49 mm, Tail length* 59.67 mm, Tarsus 18.55 mm, Middle toe 19.65 mm, hallux with claw 14.32 mm, cloaca 3.69 x 3.23 mm, Molting: Primaries 4-5, secondary #1, tail, belly, back, + head. Slight Fat. Skin + Partial skel.

Smith, J

1989

Catag

18

~~Sagehen Creek Field Station, 3mi. NW Hobart Mills, Nevada Co., California 6300ft.~~

JIS 172 *Melospiza melodia fisherella* ♀ ad. sk. 9 September 1989. wt 22.50gms.

Banded 2031-08949 ^B/_{FW} ^{6K}/_{OR}, reared JIS 148+149.

Rt tibia broken. Left ovary 3.79 x 3.86mm, largest foll. 0.72mm.

Intestine + stomach saved. Bill length 8.77mm, Bill depth 5.97mm, Bill width 5.27mm, Wing length* 64.31mm, Tail length 69.39mm, Tarsus 18.55mm, Middle toe 19.36mm, hallux with claw 13.92mm, cloaca 2.55 x 4.09mm, Molting: Primaries 8-9, secondaries 1-6, back + belly. Very Much Fat. Skin + Partial skel.

JIS 173 *Melospiza melodia fisherella* ♂ ad. sk. 9 September 1989. wt 23.50gms

Banded 1431-14510 ^F/_{OR} ^{wh}/_{PK}. Intestine + stomach saved. Testes:

L - 1.74 x 1.12mm + R - 1.31 x 1.29mm. Head shot. Bill length

9.01mm, Bill depth 6.05mm, Bill width 4.82mm, Wing length* 67.36mm, Tail length 75.03mm, Tarsus 19.70mm, Middle toe 18.43mm, hallux with claw 15.03mm, cloaca 3.85 x 3.52mm, Molting Primaries 6-9, secondaries 1-6, head, belly + back. Some fat. Skin + Partial skel.

JIS 174 *Melospiza melodia fisherella* ♂ ad. sk. 9 September 1989. wt 24.00gms.

Intestine + stomach in body > 4 hours before preservation. Gonads not found. ~~Banded~~ Banded 2031-08926 ^{6K}/_{FW} ^{OR}/_{PK}. Bill length 8.99mm, Bill depth 5.97mm, Bill width 5.07mm, Wing length* 66.31mm, Tail length 70.64mm, Tarsus 21.20mm, Middle toe 19.86mm, hallux with claw 15.66mm, cloaca 3.29 x 4.01mm. Molting: Primaries 7-9, secondaries 1-7, Some fat. Internal parasite saved with stomach. Skin + Partial skel.

JIS 175 *Melospiza melodia fisherella* ♂ ad. sk. 10 September 1989. wt 23.50gms.

Banded 2031-08932 (^{BK}/_{wh} RD/_{FW}) Mate of JIS 169, parent of

JIS 152 + 153. Intestine + stomach saved. Testes: L - 1.38 x 1.04mm +

R - 1.02 x 1.66mm. Bill length 9.85mm, Bill depth 6.28mm, Bill width 5.27mm.

th, g
1989

Catalog

19

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co., Calif. 6300ft.

- JIS 175 (cont) wing length * 67.30mm, tail length * 74.56, tarsus 19.97mm, middle toe 19.41mm, hallux with claw 15.39mm, cloaca 4.24 x 3.41mm. Molting: primaries 8-6, secondaries 1-2, head, back, belly, tail. Slight fat. Skin + partial skull.
- JIS 176 Melospiza melodia fisherella ♂ ad. sk. 10 September 1989. wt 24.50gms. Banded 1431-14513 ($Y^c/EO^{wh}/FW$) Mate of JIS 177, reared JIS 139. Tarsus + stomach saved. Only left tibia saved. Testes: L - 1.53 x 1.06mm, R - 1.33 x 1.67mm. Right hallux claw missing, + internal parasite saved with stomach. Bill length 9.17mm, Bill depth 6.14mm, Bill width 5.40mm, Wing length * 70.48mm, Tail length * 72.92mm (just a little in sheath), Tarsus 17.73mm, middle toe 19.94mm, hallux with claw 15.50mm, cloaca 3.27 x 3.02mm. Molting: primaries 7-9, secondaries 2-6, tail, head, belly + back. Some fat. Skin + partial
- JIS 177 Melospiza melodia fisherella. ♀ ad. sk. 11 September 1989. wt 19.00gms. Banded 2031-08954 ($BL/BK^{wh}/FW$) Mate of JIS 176, reared JIS 139. Tarsus + stomach saved. Left ovary 3.22 x 3.09mm. Bill length 9.07mm, Bill depth 5.86mm, Bill width 5.12mm, Wing length * 62.94mm, Tail length 66.60mm, Tarsus 18.04mm, middle toe 19.07mm, hallux with claw 14.01mm, cloaca 3.26 x 2.68mm. Molting: Primaries #9, secondaries 4-6, back + belly. Much fat.
- JIS 178 Melospiza melodia fisherella ♀ ad. sk. 11 September 1989, wt 20.50gms. Banded 2031-08963 ($Y^c/wh^{OK}/FW$). Tarsus + stomach saved. Left ovary 3.18 x 4.09mm. Tibia broken. Bill length 8.95mm, Bill depth 5.66mm, Bill width 5.30mm, wing length * 61.50mm, Tail length 66.67mm, Tarsus 20.17mm, middle toe 19.46mm, hallux with claw 14.59mm, cloaca 3.04 x 3.74mm. Molting: Primaries 8-9, secondaries 3-6, back + belly. Some fat. Skin + partial skull.

11

4

with, J

Catalog

19A

Salton Sea National Wildlife Refuge, 8mi WSW Calipatria, 500 meters N of corner of Bruchard + Foulds Road, Imperial Co, Calif., -68 feet elev.

- JIS 179 Melospiza melodia ♀ gonads shot ad.sk. 4 November 1989. wt 17.5gms
Tissue + stomach saved. No broodpatch. Some fat. Skeleton only.
- JIS 180 Melospiza melodia saltonis ♂ large sk. wind. ~~4~~ 4 November 1989.
wt. 19.0gms. Tissue + stomach saved. Some Fat. Belly Molt.
Skin + Partial skeleton.
- JIS 181 Melospiza melodia saltonis. ♀ ad.sk. 4 November 1989. wt. 17.5gms.
Left ovary 3.41 x 2.81mm. Tissue + stomach saved. Some fat. No
broodpatch. Skin + Partial skeleton.
- JIS 182 Melospiza melodia saltonis ♂ ad.sk. 4 November 1989. wt 18.0gms.
Tissue + stomach saved. Some Fat. Testes: L-1.57 x 1.23mm, R-1.31 x
1.20mm. Skin + Partial skeleton.
- JIS 183 Melospiza melodia saltonis. ♀ lg. sk. wind. 4 November 1989. wt 18.0gms.
Left ovary 1.37 x 1.13mm. No broodpatch. Tissue + stomach saved.
Collected by Carla Cecero. Tissue + stomach saved. Skin and
partial skeleton.
- JIS 184 Melospiza melodia saltonis. ♀? AK. wind. 4 November 1989. wt. 15.0gms.
Collected by Carla Cecero. Tissue + stomach saved. Some fat.
Skin + Partial skeleton. Back Molt. No broodpatch.
- JIS 185 Melospiza melodia saltonis. ♀ ad.sk. 4 November 1989. wt. 17.0gms
Collected by Carla Cecero. Left ovary 3.77 x 2.44mm. Tissue + stomach
saved. Much Fat. No broodpatch. Skin + Partial skeleton.

Smith, J
1990

Catalog

20

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft.

J15186 *Melospiza melodia fisherella* ? ^{24 days old} imm. 23 June 1990, wt 18.0 g.

Banded 77-96038 (BL). Tarsus + stomach saved. Right tibia broken

much fat Bill length 7.46, Bill depth 5.52, Bill width 4.38,
wing length 60.88, Tail length 51.6, Tarsus 16.88, Middle toe 18.60,
hallux with claw 13.99, cloaca 3.61 x 4.44, Molting Tail,
Pr. max 10, 3rd 10 47.48, Roundness 10.97, skin + partial skel.

J15187 *Melospiza melodia fisherella* ♂ ^{24 days old} imm. 23 June 1990, wt 17.0 gms.

Banded 77-96040 (BL). Tarsus + stomach saved. Both Tibia saved,

much fat Bill length 7.50, Bill depth 5.6, Bill width 4.98,
wing length 57.25, Tail length 51.91, Tarsus 18.11, Middle toe 17.83,
Hallux with claw 13.30, cloaca shot, ~~tail~~ Molting Pr. maxis
shot, Roundness 11.06, 3rd 10 47.55, Tail skin + Partial skel.

~~J15188 *Melospiza melodia gouldii* SK. wind.~~

Big Creek Reserve, 5 mi N Lucia, Monterey Co., California, 400 ft.

J15188 *Melospiza melodia gouldii* ♂ hatched SK. wind. 7 July 1990. wt 17.5 gms.

Tarsus saved + stomach. Banded 77-96042. This fledgling is

part of Transfer #3, eggs laid at Big Creek but transferred to
Sagehen Creek Field Station 27 May 1990, hatch day ~ 4 June 1990.

Bill length 7.55, Bill depth 5.30, Bill width 4.53, wing
length 59.48, Tail length 55.58, Tarsus 16.98, Middle toe 18.53,
Hallux 13.55, Molt: ^{43.96} 43.96 3rd 10 ^{45.74} 45.74, Tail ^{52.95} 52.95, cloaca ^{3.05 x} 2.59

SK. + partial skel. Roundness 9.79, Toes: L 0.82 x 0.85, R 1.00 x 0.71

J15189 *Melospiza melodia gouldii* ♂ hatched SK. wind. 7 July 1990. wt 17.0 gms

^{SK. + partial skel.}
Tarsus saved + stomach, Banded 77-96043. This fledgling is part of
transfer #3, eggs laid at Big Creek but transferred to Sagehen Creek Field
Station 27 May 1990, hatch day ~ 4 June 1990. Bill length 7.48, depth 5.10,

width 4.29, wing length 58.33, Tail length 57.65, Tarsus 17.55, Middle toe 17.66,
Hallux 12.84, Molt: ^{48.61} 48.61/48.61, ^{47.65} 47.65/52.97 tail, cloaca ^{4.33 x} 2.47 Round 11.83

Left tibia
not saved

Right wing
shot
hatched

Big Creek Reserve, San Lucia, Monterey Co., California 400ft elev.

JIS 190 *Melospiza melodia gouldii* ♀ ^{2.87 x 0.86 mm} sk. wind. 10 July 1990 wt. 17.5 gms
 Intestine & stomach saved. Cloaca 2.16 x 1.48, fat some, Bill length
 8.12 mm, Bill depth 5.19, Bill width 4.30, Wing length 55.18,
 Tail length 56.41, Tarsus 16.50, Middle toe 18.30, Hallux with claw 18.29
 claw 13.19, Molt: ^{47.21} 47.21 3rd 10, Round 9.92 mm, Tail ~~55.55~~ 55.55/55.55, belly pins
 skin + partial skull saved.

JIS 191 *Melospiza melodia gouldii* ♂ ^{1.97 x 1.47 L + R 1.92 x 1.66} ad. sk. 10 July 1990. wt 21.0 gms
 Intestine & stomach saved. Cloaca 3.2 x 4.29, fat set,
 Bill length 8.24 mm, Bill depth 5.69, Bill width 4.69, Wing length
 59.77, Tail length 57.19, Tarsus 17.45, Middle toe
 19.05, Hallux with claw 13.85, Molt: Primaries 2+3 and Tail all but right 3 outer
 Skeleton Only. Roundness: 11.53

JIS 192 *Melospiza melodia gouldii*, ♂? sk. wind. 11 July 1990 ^{22.0} 22.0 gms
 Intestine & stomach saved. Cloaca, fat ~~some~~ some,
 Bill length 7.80 mm, Bill depth 5.59, Bill width 4.49, Wing length
 61.42, Tail length 63.44, Tarsus 18.49, Middle toe 17.74,
 Hallux with claw 15.26, Molt ^{48.54} 3rd 10 ^{48.54} 48.54, Tail ^{61.20} 61.20
 Roundness: 9.80, Accompanied by adults & others calling
 probably ~ 4 weeks old. Skin + partial skull. ^{Back feathers some in} Pins

JIS 193 *Melospiza melodia gouldii*, ♂ huge sk. wind. 11 July 1990. ? gms
 Intestine & stomach saved. Cloaca, fat some, Bill
 length ^{7.79} 7.79, Bill depth ^{5.31} 5.31, Bill width ^{4.25} 4.25, Wing length
 58.41, Tail length 60.95, Tarsus 19.92, Middle toe 18.04,
 Hallux with claw 13.71, Molt: ^{45.84} 45.84 10, Tail ^{57.33} 57.33
 Roundness 7.50, Accompanied by adult, ~ 4 weeks old.
 Skin + partial skull. Tick engorged on left side of throat

Smith, J

Catalog

22

Big Creek Reserve 5 mi N Lucia, Monterey Co. California, 400 ft elev.

J15194 Melospiza melodia gouldii. ♂ sk. wind. 11 July 1990. ^{24.5} 24.5 gms
Issue + stomach saved. Cloaca , fat some. Bill
length 8.05, Bill depth 5.82, Bill width 4.65, Wing length
58.61, Tail length 59.81, Tarsus 20.37, Middle toe 16.55,
Hallux with claw 14.57, Molt: $\frac{46.83}{46.83}$ 1°, $\frac{60.15}{60.15}$ tail
Roundness 8.78, Accompanied by an adult, ~4 weeks old.
Ski + partial skel.

J15195 Melospiza melodia gouldii. ♂ sk. wind. 11 July 1990. 21.0 gms
Issue + stomach saved. Cloaca , fat much. Bill
length 7.67, Bill depth 5.76, Bill width 4.25, Wing length
60.46, Tail length 62.75, Tarsus 19.60, Middle toe 17.88,
Hallux with claw 14.34, Molt: $\frac{47.16}{47.16}$, $\frac{62.75}{62.75}$ tail
Roundness 7.22, Accompanied by an adult, ~4 weeks
old, ski + partial skel. Right foot broken

J15196 Melospiza melodia gouldii. O? sk. wind. 14 July 1990. 16.5 gms
Issue and stomach saved, Cloaca 4.26 x 3.21, fat much. Bill
length ~~depth~~ 7.12, Bill depth 5.11, Bill width 4.21, Wing
length 56.71, Tail length 45.53, Tarsus 18.45, Middle
toe 19.60, Hallux with claw 13.50, Molt: ~~44.31~~ $\frac{39.49}{44.31}$,
Roundness: 9.04
Still being fed by adult. 77-96045 banded R/R 26 days old
Part of transfr #4 Right foot A broken, ski + partial skel.

J15197 Melospiza melodia gouldii. ♀? ^{0.88 x 1.42 left wing} sk. wind 17 July 1990. 17.0 gms
Issue + stomach saved, Cloaca , fat much, Bill length 7.33 mm,
Bill depth 4.83, Bill width 4.97, Wing length 57.62, Tarsus 18.77,
Middle toe 18.53, Hallux with claw 14.07, Molt: $\frac{40.03}{45.18}$ 3rd°, $\frac{36.65}{42.85}$ tail
Tail 49.06, Roundness 9.84, Laid at Big Creek, hatched, reared + skel at
Sagehen. Sib of J15196. Banded 77-96048. Ski + partial skel. 26 days old

Smithy

1990

Catalog

23

Big Creek Reserve, San Nicolas, Monterey Co., California 400 ft

JIS 198

Melospiza melodia gouldii. ♂. sk. wind. 17 July 1990. 18.0 gms
 Intestine + stomach saved. Cloaca 2.37 x 3.38, fat much, Bill
 length 6.82, Bill depth 5.46, Bill width 5.00, Wing length 55.78^{left wing},
 Tail length 51.0, Tarsus 19.32, Middle toe 16.98, Hallux with claw 14.58,
 Molt: $\frac{43.02}{46.83} 1^\circ$, $\frac{35.87}{45.23}$ Roundness 10.72, laid at Big Creek hatch
 reared ad shot at Sager, partly trans #6 (see notes) sib of JIS 199.
 Banded 77-96046. Right wing + leg shot. SK + Partial SKel. 25 days old

JIS 199

Melospiza melodia gouldii. ♂. sk. wind. 17 July 1990. 19.5 gms
 Intestine + stomach saved. Cloaca 2.54 x 2.98, fat some, Bill length 7.11 mm,
 Bill depth 4.70, Bill width 4.48, Wing length 57.33, Tail length 50.15,
 Tarsus 20.35, Middle toe 17.63, Hallux with claw 13.79, Molt $\frac{44.64}{44.64} 1^\circ$
 $\frac{35.57}{42.79}$ tail, Roundness 9.84. Laid at Big Creek, hatched,
 reared + Murt at Sager. Sib of JIS 198. Trans #6^(P. 190). Banded 77-96047
 Right leg shot + left shot - no tissue saved. Shot in back gonads not found
 no kidney found 25 days old

JIS 200

Melospiza melodia gouldii ♂ sk. wind. 24 July 1990. wt. 19.0 gms.
 Intestine + stomach saved. Cloaca 2.62 x 2.62 mm. Much fat.
 Testes: L-1.48 x 0.90 mm, R-0.89 x 0.97 mm. Bill length 7.77 mm, Bill
 depth 5.47, Bill width 4.87, Wing length 61.74, Tail length 64.06,
 Tarsus 20.63, Middle toe 19.17, Hallux 13.67, Roundness 11.25,
 Molt 49.62/49.62 3rd 1°, 63.57/63.57 tail. Fledgling.

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California 6300 ft elev.

JIS 201

Melospiza melodia fischerella ♂ sk. wind. 26 July 1990. wt 20.0 gms
 Banded 77-96039. Testes: L-0.94 x 0.74, R-1.05 x 0.95 mm.
 Bill length 8.98, Bill depth 6.07, Bill width 5.02, Wing length 64.86, Tail length
 66.16, Tarsus 19.21, Middle toe 17.46, Hallux with claw 14.41, Roundness 12.15,
 Molt: 52.14/52.14 3rd 1°, 62.72/62.72 tail. 57 days old.

mith, J

1990

Catalog

24

~~Big Creek Reserve, 5 mi N Lucia, Monterey Co., California 400 ft elev~~
JIS 202 Melospiza melodia gouldii. ♂ sk. wind. 26 July 1990. wt. 19.0 gms.
Banded 77-96057. Testes: L-1.62 x 0.95 mm, R-1.77 x 1.4 mm.
Some Fat. Both legs shot. Laid at Big Creek; hatched reared +
collected at Sagehen Creek Field Station, 3 mi NW Hobart Mills,
Nevada Co., California 6300 ft elev. Transfer #7. 29 days old.
Bill length - shot, Bill depth 5.2 mm, Bill width 4.43, Wing length 58.49,
Tail length 56.87, Tarsus 20.51, Middle toe 15.24, Hallux with
claw 12.93, Roundness 8.88, Molt: 47.88/47.88 3rd 10, 40.30/50.26
tail. Skin + Partial skeleton. Tissue + stomach saved.

JIS 203 Melospiza melodia gouldii ♀ sk. wind. 27 July 1990. wt. 17.5 gms.
Banded 77-96059. Much Fat. Tissue + stomach saved.
Laid at Big Creek; hatched, reared and collected at Sagehen Creek
Field Station, 3 mi NW Hobart Mills, Nevada Co., California, 6300 ft elev.
Transfer #9. 32 days old. ~~Bill~~ Bill length 7.25 mm, Bill depth 5.18,
Bill width 4.77, Wing length 56.85, Tail length 57.19, Tarsus 18.00,
Middle toe, 17.47, Hallux with claw 13.48, Roundness 10.92,
Molt: 44.63/44.63 3rd 10, 43.85/51.33 tail.

~~JIS 204 Melospiza melodia fesheriella~~

~~Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California 6300 ft~~
JIS 204 Melospiza melodia fesheriella. ♂ sk. wind. 27 July 1990. wt. 19.5 gms.
Tissue + stomach saved. Some fat. Testes: L-1.52 x 1.18, R-1.18 x 1.01 mm.
Being fed by parents. Skeleton Only. Bill length 5.96, Bill depth 4.57,
Bill width 4.57, Wing length 49.43, Tail length 22.71, Tarsus 19.27,
Middle toe 19.20, Hallux with claw 12.53, Roundness 9.61. Molt
27.62/35.13 3rd 10, 8.21/20.87 tail.



with, J

1990

Catalog

25

~~Big Creek Reserve, 5 mi N Lucia, Monterey Co., California, 400 ft. elev.~~

J15205 Melospiza melodia gouldii ♀ sk. wind. 28 July 1990. wt. 18.5 gms.

left ovary 1.32 x 1.32 mm. Banded 77-96063. Much Fat. Laid at Big Creek; hatched, reared + collected at Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft. elev. Skin + Partial skeleton. Tissue + stomach saved. Part of Transf #10. 25 days old. Bill length 7.10 mm, Bill depth 4.74, Bill width 4.22, Wing length 55.42, Tail length 47.36, Tarsus 19.69, Middle Toe 17.46, Hallux with claw 14.35, Roundness 9.01, Molt 40.70/40.70 3rd 1°, 35.71/41.73 tail.

~~Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California, 6300 ft. elev.~~

J15206 Melospiza lincolni ♂ sk. wind. 28 July 1990. wt. 16.0 gms

Skeleton only. Testes: L-1.42 x 0.70 mm, R-1.06 x 0.66 mm.

~~Big Creek Reserve, 5 mi N Lucia, Monterey Co., California, 400 ft. elev.~~

J15207 Melospiza melodia gouldii ♂ sk. wind. 29 July 1990. wt. 21.5 gms

Banded 77-96065. Testes L-1.26 x 0.80 mm, R-1.13 x 0.88 mm.

Much fat. Laid at Big Creek; hatched, reared + collected at Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California, 6300 ft. elev. Part of Transf #11. 27 days old. Tissue + stomach saved. Skin + Partial skeleton. Bill length 7.00 mm, Bill depth 5.07, Bill width 4.24, Wing length 60.31, Tail length 57.72, Tarsus 20.35, Middle Toe 18.68, Hallux with claw 13.89, Roundness 12.38, Molt: 47.59/47.59 3rd 1°, 39.75/51.75 tail.

~~J15208 Melospiza melodia ♂~~

~~Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft. elev.~~

J15208 Melospiza melodia fisherella ♀ ad sk 14 August 1990. wt. 19.00 gms.

Banded 77-96105. Left Ovary 4.75 x 2.78; 0.56 mm largest follicle

Some fat. Parent of 77-96106 + 77-96107. Reared OR OR + 77-96108.

↳ J15211

Smith, J

1990

Catalog

26

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co., California 6300 ft elev

JIS 208
(cont)

Skis + Partial skeleton. Tissue + stomach saved. Bill length 8.97
Bill depth 6.23, Bill width 4.85, Wing length 60.82, Tail length 63.79,
Tarsus 19.38, Middle Toe 19.87, Hallux with claw 13.92
Roundness 9.21, Molt: tail (3rd from outer tip) shot. ^{Male ♀} JIS 213

JIS 209

Melospiza melodia fischerella ♂ imm sk wind. 14 August 1990. wt. 22.0 gms
Banded 77-96108, offspring of 77-96033 ^{OR PL} ~~FW~~ ^{PL} + unmarked ♀; reared
by JIS 208 + ^{JIS 213} unmarked ♂. Skis + partial skel. Tissue + stomach saved.
Bill length 6.58, Bill depth 5.29, Bill width 4.80, Wing length 64.63,
Tail length 46.16, Tarsus ^{20.46} ~~24.57~~, Middle Toe ^{19.52} ~~17.35~~, Hallux with
claw 14.46, Roundness 10.89, Molt: ^{43.08} 50.74 ^{20.09} 3rd 10, ^{41.16} tail
Testes L: 1.87 x 1.16 mm R: 1.59 x 1.07 mm. Much Fat
21 days old. 5.6 g JIS 212.

JIS 210

Melospiza melodia fischerella ? imm sk wind. 15 August 1990. wt. 19.50 gms
Skeleton Only. Tissue + stomach saved. Bill length 7.70, Bill
depth 6.04, Bill width 5.23, Wing length 63.67, Tail length 67.45,
Tarsus 19.03, Middle Toe 18.36, Hallux with claw 14.04
Roundness 11.26, Molt: ^{51.52} 51.52 ^{65.16} 10, ^{65.16} tail.
Gonads: shot, left unj. shot

JIS 211

Melospiza melodia fischerella ♂ imm sk wind. 15 August 1990. wt. 24.0 gms
Banded 77-96107, offspring of JIS 208, reared by 77-96033 ^{OR PL} ~~FW~~ ^{PL} +
unmarked ♀. Skis + Partial skeleton. Tissue + stomach. Bill length 7.35
Bill depth 5.63, Bill width 4.68, Wing length 67.05, Tail
length ^{57.52} 57.52, Tarsus 19.73, Middle Toe 19.01, Hallux w/ claw 14.94
Roundness 12.02, Molt: ^{47.09} 51.69 ^{42.34} 10, ^{51.02} tail
24 days old. Gonads: Testes L: 1.55 x 1.11 mm; R 1.32 x 1.23 mm

Smith, J
1990

Catalog

27

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co. Calif., 6300 ft. elev.

JIS 212

Melospiza melodia fisherella ♀ imm sk. wind. 16 August 1990. wt. 19.0 gms.
Banded OR OR. Sib of JIS 209. Offspring of 77-96033[♂] FW 1/20; reared
by JIS 208 + JIS 213. Skin + Partial skeleton. Intestine + Stomach
saved. 22 days old. Bill length 6.72, Bill depth 5.46, Bill
width 4.90, Wing length 61.26, Tail length 46.67, Tarsus 19.1
Middle toe 18.72, Hallux with claw 13.42, Roundness 9.02
Molt ^{41.37} 49.08 10, Tail ^{33.46} 41.86,
Gonads ovary 3.34 x 1.95

fat much

right tibia shot broken

JIS 213

Melospiza melodia fisherella ♂ ad. sk. 16 August 1990. wt. 20.5 gms.
Reared
Mate of JIS 208. ~~Parent~~ of JIS 209 + 212. Parent of JIS 211.
Skin + Partial skeleton. Intestine + Stomach saved. Bill length 8.76,
Bill depth 5.88, Bill width 4.84, Wing length 65.61, Tail length 70.58,
Tarsus 20.55, Middle toe 17.76, Hallux with claw 14.00, Roundness 10.51
Molt tail coverts, Primaries
Gonads: Testis L-2.56 x 1.66

R- 2.63 x 1.57

fat & gut cng 1 tibia saved

Found a parasite in the kidney saved with stomach.

JIS 214

Melospiza melodia fisherella ♂ imm sk. 22 August 1990. wt 18.5 gms
Young of JIS 215, sib of JIS 186 + 187 + JIS 201. Banded 77-96111 BL
20 days old. Skin + Partial skel. Intestine + stomach ^{much fat} saved. Bill
length 6.94 mm, Bill depth 5.56, Bill width 4.20, Wing length 62.95,
Tail length 44.68, Tarsus 21.41, Middle toe 17.60, Hallux with claw 14.66
Roundness 12.23, Molt ^{42.28} 48.75 10, ^{28.55} 38.17 tail. Testis: L 1.93 x 0.96
T. b. AS mot 21.26 x 1.48

JIS 215

Melospiza melodia fisherella ♀ ad sk. 22 August 1990. wt 19.5 gms
Banded ^{BL} 77-96109 ^{GL} OR. Parent of JIS 214, 186, 187, 201. Skin + Partial skel. Intestine + Stomach saved.
Bill length 9.26, Bill depth 5.87, Bill width 5.27, Wing length 57.69, Tail length 63.45, Tarsus 19.12,
Middle toe 17.87, Hallux with claw 14.20, Roundness 6.80, Molt head ^{water} 4.57 12.19. 13/10/0.63
Gonads. One tibia shot 5 me fat



1990

Catalog

28

Paoha Island, Mendocino, Mono Co., CA.

JIS 216

Microtus californicus ♂ collected by M. Morrison #900427-2.

prep JIS. 27 April 1990 174-55-22-15. SKIN + SKULL saved
 not scrotal. left Testis 11mm, Right T 13mm; seminal vesicle left 23mm.
 r., ut 20mm

1991

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co., Calif 6300ft

JIS 217

Melospiza melodia fischerella. ♀ ad SK. 11 July 1991. wt. 25.0g

JIS 241

Banded 77-96150 YL/FW BL/OR. SKIN + partial skeleton

Tissue ~~not~~ saved. See 11 July 1991 journal for measurements much fat

JIS 218

Melospiza melodia fischerella ♂ imm SK. 11 July 1991 wt. 23.0g

Banded 77-96128 + PK. SKIN + partial skel. Tissue saved. 23 days old
 Bill length 7.26, Bill depth 5.65, Bill width 4.75, wing length 65.09,
 Tail length 50.84, Tarsus 19.76, middle toe 18.27

hallow with claw 13.95, Molt primary #3 ^{51.33} 51.33 tail ^{38.82} 48.48
 Roundness ^{7.63} 7.63

mother is 77-96118 / PK PK/PK. sib g 219-221. Tests 1.53 x 0.93-

JIS 219

Melospiza melodia fischerella imm SK. 11 July 1991 wt 23.50g

Banded 77-96127 + PK. SKIN + partial skel. Tissue saved. 22 days old
 Bill length 7.08, Bill depth 5.00, Bill width 4.44, wing length 61.38,
 Tail length 46.65, Tarsus 20.10, middle toe 18.61

hallow + claw 14.94, Molt primary #3 ^{49.22} 49.22 tail ^{35.46} 43.42

Roundness ^{7.64} 7.64 sib g JIS 218, 220 + 221. Mother is 77-96118.

JIS 220

Melospiza melodia fischerella imm SK. 11 July 1991. wt. 20.0g

Banded 77-96126 + PK. SKIN + partial skel. Tissue saved. 23 days old

Bill length 7.04, Bill depth 4.99, Bill width 4.16, wing length 60.94,
 Tail length 49.44, Tarsus 19.42, middle toe 17.30, hallow 73.11

Molt 3rd primary ^{50.21} 50.21, tail ^{38.15} 46.12 Round 6.54

sib 221 + 218-219. Mother is 77-96118. Corns not found

Smith, J.
1991

Catalog

29

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft

JIS 221 Melospiza melodia fischerella 1 imm SK. 11 July 1991 wt. 21.5g
Banded 77-96125 + PK. skin + partial skull. Tissue saved. 23 days old.
Bill length 7.34, Bill depth 5.33, Bill width 4.56, wing length 62.50,
tail length 51.17, Tarsus 19.94, middle toe 19.02,
hallux w/ claw 14.08 Molt 3rd primary ^{49.05} 49.05 tail ^{39.90} 48.54
Roundness 7.85 sub of JIS 218-220. Mother 77-96118.
Left tarsus shot. Gonads not found

JIS 222 Melospiza melodia fischerella. ♂ imm SK. 12 July 1991 wt. 24.0g
Banded 77-96133 + OR. skin + partial skull. Tissue
saved. 25 days old. Bill length 7.36, Bill depth 5.60,
Bill width 4.82, wing length 64.96, tail length 57.91,
Tarsus 20.03, mid toe 18.69, hallux w/ claw 14.17
roundness ^{8.59} 8.59 sub of JIS 223-224. Mother is
77-96136. Molt 3rd primary ^{50.22} 50.22 tail ^{41.85} 51.88

JIS 223 Melospiza melodia fischerella ♀ imm SK. 12 July 1991
wt. 21.0g. Banded 77-96135 + OR. 25 days old. Bill length 7.30
Bill depth 5.32, Bill width 4.77, wing length 61.66, Tail length ^{52.72} 52.72,
Tarsus 18.81, mid toe 17.94, hallux w/ claw 13.07
roundness 9.09, Molt 3rd primary ^{46.60} 46.60 tail ^{38.92} 48.95
sub of JIS 222, + 224. Mother is 77-96136.

JIS 224 Melospiza melodia fischerella 1 imm SK. 12 July 1991. wt. 22.0g
Banded 77-96134 + OR. 26 days old. Bill length 7.21, Bill depth 5.26
Bill width 4.52, wing length 61.50, tail length 59.20, Tarsus 19.33
Middle Toe 19.13, hallux w/ claw 12.69, Roundness 7.04
Molt 3rd primary ^{50.23} 50.23, tail ^{46.30} 54.09 sub of 222-223. Mother
is 77-96136. Gonads shot



Smith, J

1991

Catalog

30

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co, Calif. 6300ft

JIS 225 Melospiza melodia fisheriella - ♀? 1mm SK. 12 July 1991. wt. 22.0g
Banded right green. skin + partial skel. Tissue saved. 22 days old.
Bill length 6.46, Bill depth 5.14, Bill width 4.69, wing length 60.61,
tail length 48.79, tarsus 13.91, mid toe 18.27, hallux 13.62
molt 3rd 1° ^{47.99} 47.99, tail ^{33.39} 43.30. Roundness 7.38
mother is 77-96117, father is JIS 226.

JIS 226 Melospiza melodia fisheriella ♂ ad SK. 12 July 1991. wt. 23.50g
Banded 2031-08924 PK/FW OR. skin + partial skel. Tissue saved.
Bill length 9.25, Bill depth 5.74, Bill width 4.45, wing length 66.56,
tail length 69.93, tarsus 19.23, mid toe 18.89, hallux 13.58
molt 1° 3rd ^{47.99} 47.99 none, Round 7.55 father of JIS 225. mother 77-96117.

JIS 227 Melospiza melodia fisheriella 1mm SK. 24 July 1991, wt.
18g. Banded 77-96153 Rd/Rd. skin + partial skeleton.
Tissue saved. 14 days old. This bird was incubated,
hatched, brooded and collected at Big Creek Reserve, 5mi
N Lucia, Monterey Co., Calif 400ft. Bill length 5.65,
Bill depth 4.50, Bill width 4.25, wing length 52.24,
tail length 26.30, tarsus 20.95, mid toe 18.19,
hallux 13.10, molt: 3rd 1° ^{36.27} 41.10, tail ^{12.84} 23.35, Roundness 9.47
much fat. Eggs not found. Sib of JIS 228, Mother 77-96148 (JIS 265)

JIS 228 Melospiza melodia fisheriella ♂ imm SK 28 July 1991 wt. 20.5g.
Banded 77-96155 Rd/Rd. skin + partial skel. Tissue saved. 18 days old
This bird was incubated, hatched, brooded and collected at Big Creek Reserve,
5mi N Lucia, Monterey Co., Calif. 400ft. Bill length 6.48, Bill depth 4.77,
Bill width 3.72, wing length 59.72, tail length 35.10, Tarsus 19.86,
mid toe 18.29, hallux 13.94, molt 2nd 1° ^{39.32} 46.22, tail ^{17.55} 28.57
Round 8.01 sib of JIS 227. Testes left 1.45x0.32, right not found
much fat. Mother 77-96148 (JIS 265)

Smith, J

1991

Catalog

31

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft

JIS 229 Melospiza melodia cooperi. ♀ ad sk. 28 July 1991. wt. 17.5g
 SKI + partial skel. Tissue saved. Mated to 77-96156. Reared
 transplant clutch JIS 227-228. Bill length 8.20, Bill depth 5.37
 Bill width 4.47, Wing length 57.23, Tail length 56.59, Tarsus 17.73
 Midtoe 17.82, hallux 13.10, not tail molt
 Roundness 10.75 3.70 x 2.76 left ovary

JIS 230 Melospiza melodia cooperi im sk. 28 July 1991 wt. 5.5g
 Alcoholic. Tissue saved. Offspring of BW/BL ♂¹ on new
 research facility. sib of JIS 231. ~7 days old. Died of starvation.
 ♂ is not feeding. Bill length 3.25, Bill depth 2.71, Bill width 2.38,
 Wing length 16.79, Tail length —, Tarsus 0, Midtoe 29.28,
 hallux 10.06, molt 3rd 1° $\frac{0}{9.17}$, tail X. Roundness 1.70

JIS 231 Melospiza melodia cooperi im sk. 28 July 1991 wt. 5.0g
 Alcoholic. Tissue saved. Offspring of FW/BL ♂¹ on new research facility.
 sib of JIS 230. ~7 days old. Died of starvation. Bill length 3.43,
 Bill depth 3.00, Bill width 2.42, Wing length 18.26, Tail length 2.43
 Tarsus 15.27, midtoe 14.41, hallux 10.37, molt 3rd 1° $\frac{2.16}{11.64}$,
 tail 1.13. Roundness 5.42 Right leg red.

JIS 232 Melospiza melodia cooperi ♀? im sk. 29 July 1991 wt. 17.0g.
 SKI + partial skeleton. Tissue saved. Bill length 7.96, Bill depth 5.15,
 Bill width 4.49, wing length 56.87, midtoe 17.70, hallux 14.35, 3rd 1° $\frac{46.80}{46.80}$, tail $\frac{54.66}{54.66}$.
 Roundness 6.55. Gonads short. Some fat

JIS 233 Melospiza melodia cooperi. im sk. 29 July 1991. wt. 16.0g. SKI + partial skel.
 Tissue saved. Bill length 8.05, Bill depth 4.98, Bill width 4.60, Wing length 54.37,
 Tail length 60.18, Tarsus 17.82, Midtoe 17.52, Hallux 14.37,
 Molt 3rd 1° $\frac{44.46}{44.46}$, tail $\frac{56.72}{56.72}$, Round 8.36
 Gonads not found. much fat

Smith, J

1991

Catalog

32

Big Creek Reserve 5 mi N Lucia, Monterey Co., Calif. 400 ft

J15234 Melospiza melodia cooperi ♂ im sk. . wt. 18.0g. 29 July 1991.

Skin + partial skeleton. Tissue saved. Bill length 7.99, Bill depth 5.08,
 Bill width 4.60, ~~Wing~~ wing length 58.30, tail length 61.42, Tarsus 18.68,
 mid toe 17.64, hallux 13.43, molt 3rd 1° $\frac{45.80}{45.80}$, tail ~~61.42~~ ^{57.48}
 Roundness 7.73 left tarsus shot nucleated. Gonads not found

J15235 Melospiza melodia cooperi im sk. wt 18.0g. 29 July 1991. 57.48

skin + partial skel. Tissue saved. Bill length 7.96, Bill depth 4.96,
 Bill width 4.78, wing length 56.50, Tail length 57.33, Tarsus 18.55,
 Mid toe 17.31, hallux 14.22, molt: 3rd 1° $\frac{43.07}{43.07}$, tail $\frac{54.69}{54.69}$,
 Roundness 6.83 left leg shot Gonads not found

J15236 Melospiza melodia cooperi ♂ im sk. 29 July 1991 wt. 21.0g

Skin + partial skel. Tissue saved. Bill length 7.98, Bill depth 5.24,
 Bill width 4.39, wing length 60.65, Tail length ~~65.21~~ ^{64.46}, Tarsus 19.59
 Mid toe 18.58, hallux 14.81, molt: 3rd 1° $\frac{49.28}{49.28}$, tail ~~65.21~~ ^{64.23}
 Roundness 6.14 left testis 1.14 x 0.73

J15237 Melospiza melodia cooperi im sk. 29 July 1991. wt. 19.0g

skin + partial skel. Tissue saved. Bill length 7.91, Bill depth 5.20,
 Bill width 4.44, wing length 59.72, tail length 60.35, Tarsus 19.09,
 mid toe 17.58, hallux 14.05, molt 3rd 1° $\frac{47.45}{47.45}$ tail $\frac{60.34}{60.34}$,
 Roundness 7.04 lots of fat. Gonads not found.

J15238 Melospiza melodia cooperi im sk. 29 July 1991 wt. 20.0g

skin + partial skeleton. Tissue saved. Bill length 7.67, Bill depth 5.25,
 Bill width 4.42, wing length 59.63 Tail length 62.46, Tarsus 19.29,
 mid toe 17.92, hallux 13.95, molt 3rd 1° $\frac{48.78}{48.78}$, tail $\frac{58.76}{58.76}$
 Round 7.49 Gonads not found

Smith, J

1991

Catalog

33

Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400ft

JIS 239 ~~Melospiza melodia cooperi~~ *Melospiza melodia cooperi* ♀ adsk. 7 August 1991 wt. 16.50g.
skin + partial skeleton. Tissue saved. Bill length 8.30, Bill depth 5.24,
4.9 x 1.37 ^{left} Bill width 4.73, wing length 55.67, tail length 56.23, tarsus 18.38,
midtoe 16.42, hallux 13.64, molt no, Randnum 9.39

JIS 240 ~~Melospiza melodia cooperi~~ *Melospiza melodia cooperi* imsk 6 August 1991. wt 17.0g
skin + partial skeleton. Tissue saved. Bill length 7.67, Bill depth 5.31,
Bill width 4.47, wing length 53.78, Tail length 55.20, Tarsus 17.52,
Midtoe 16.36, hallux 13.63, molt 3rd 1° $\frac{43.74}{43.74}$ tail $\frac{52.05}{52.05}$
Randnum 6.86

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

JIS 241 ~~Melospiza melodia fischerella~~ *Melospiza melodia fischerella* ♂ imsk. 7 August 1991. wt. 18.0g.
16 days old. Banded 77-96162 ^{Red}. This bird was incubated, hatched,
reared, and collected at Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400ft.
Offspring of JIS 217. Tissue saved. Bill length 5.92, Bill depth 4.48,
Bill width 4.36, wing length 55.60, Tail length 25.43, Tarsus 20.92,
Midtoe 17.35, Hallux 12.63, molt 3rd 1° $\frac{37.44}{41.78}$ tail $\frac{16.47}{24.38}$
Randnum 5.71 Reared by JIS 239. Right wing shot. Lots of fat.
Liver was yellow. mother JIS 217

JIS 242 ~~Melospiza melodia fischerella~~ *Melospiza melodia fischerella* ♂ adsk 9 August 1991. wt 20.5g. Banded
77-96119 ^{BL/FW} ^{OL} ^{PK} mate of JIS 243. Father of JIS 244-245. Tissue saved.

Also father of 77-96122-124. Bill length 8.83, Bill depth 6.12, Bill width 4.84,
Wing length 62.90, Tail length 68.94, Tarsus 19.23, Midtoe 18.15, Hallux 13.37,
^{slit} ^{fat} molt no, Rand 6.16 left leg shot 1st to 3.49 x 1.69; 2.61 x 1.19-R

JIS 243 ~~Melospiza melodia fischerella~~ *Melospiza melodia fischerella* ♀ adsk. 9 August 1991. wt 20.0g. Mate of JIS 242
mother of JIS 244-245 + 77-96122-124. Tissue saved. Bill length 8.66, Bill depth 5.98,
Bill width 5.17, Wing length 61.72, Tail length 59.15, Tarsus 20.38, Midtoe 18.02, hallux 13.72,
molt no, Rand 7.00 3.44 x 2.34 left ovary legs shot
slit fat VIAL 242A is tissue not in alcinol

Smith, J
1991

Catalog

34

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co, Calif 6300 ft

J15244 Melospiza melodia fisherella ♂ imm. 23 days old. 9 August 1991. wt 20.5g

Father is J15242, mother J15243, sib J15245. Banded 77-96 157 BL. Tissue saved.

Bill length 6.82, Bill depth 4.35, Bill width 4.79, wing length 62.09, Tail length 44.27

Tarsus 18.45, mid toe 19.90, hallux 13.14, molt 3rd 1° $\frac{47.29}{51.39}$, tail $\frac{30.68}{38.95}$

Round 5.96. Some feet L = 1.08 x 0.47, 0.90 x 0.62 - R

J15245 Melospiza melodia fisherella ♂? imm. 23 days old. 9 August 1991 wt. 19.5g.

Parents J15242-243, sib J15244. Tissue saved. Banded 77-96 159 BL. Bill length 7.25,

Bill depth 5.52, Bill width 5.08, Wing length 60.78, Tail length 50.69, Tarsus 19.21,

mid toe 19.20, hallux 13.35, molt: 3rd 1° $\frac{49.03}{49.03}$, tail $\frac{36.33}{43.34}$, Round 7.21

J15246 Melospiza melodia fisherella ♂ imm. unbanded. 9 August 1991 wt. 20.0g

Bill length 8.25, Bill depth 6.18, Bill width 4.78, Wing length 66.29, Tail length 67.84,

Tarsus 20.25, Mid toe 17.98, Hallux 14.22, molt: 3rd 1° $\frac{51.60}{51.60}$, tail $\frac{66.47}{66.47}$,

Round 7.52 Tissue saved left tarsus shot L 1.27 x 0.69, R 1.14 x 0.95

J15247 Melospiza melodia fisherella ♀ ad. sk. 10 August 1991. wt. 19.0 gm.

Banded 77-96 104 $\frac{OR}{FW}$ $\frac{BL}{TL}$. Reared J15249+250, mate J15248. Mother of

77-96 167 - 170 (J15251). Tissue saved. Bill length 8.17, Bill depth —,

Bill width 4.22, Wing length 62.27, Tail length 58.70, Tarsus 18.35, Mid toe 18.54,

Hallux 14.21, molt NO, Round 7.30.

Lower mandible shot. Molt wing 4.77 x 2.27 mm, left leg shot.

J15248 Melospiza melodia fisherella ♂ ad. sk. 10 August 1991. wt. 20.0 gus.

Banded 77-96 178 $\frac{FW}{OR}$ $\frac{BL}{TL}$. Reared J15249+250, mate J15247. Father of J15251+275

170 (J15251). Tissue saved. Bill length 8.17, Bill depth 5.93, Bill width 4.72,

Wing length 64.16, Tail length 63.47, Tarsus 19.18, Mid toe 18.58, Hallux 14.53,

molt NO, Round 6.30. Some feet L - 3.08 x 1.92

R 2.65 x 3.05

Smith, J

1991

Catalog

35

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

J15249 Melospiza melodia fisherella ♂ imm. 10 August 1991. wt 18.0 gms
17 days old. Mother J15247, father J15248. Reared by J15247-248.

sib 250. Mother J15252. Tissue saved. Bill length 5.71, Bill depth ---,
Bill width 3.39, Wing length 56.88, Tail length 31.67, Tarsus 20.49, Midtoe 19.07,
Hallux 13.65, molt: 3rd 1° $\frac{41.09}{46.63}$, tail $\frac{15.07}{25.29}$; Round 5.26
Bill skt. Banded 77-96174 BL. Tarsus L-1.29+0.79, L-1.16+0.82

J15250 Melospiza melodia fisherella ♂ imm. 10 August 1991. wt 17.50 gms.

Banded 77-96173 BL. 17 days old. Reared J15247-248, sib J15249, mother J15252.
Tissue saved. Bill length 5.42, Bill depth 4.34, Bill width 3.77,
Wing length 54.11, Tail length 31.12, Tarsus 19.69, midtoe 18.56,
Hallux 13.47, molt: $\frac{17.81}{28.13}$, 3rd 1° $\frac{40.19}{44.65}$; Round 6.36

J15251 Melospiza melodia fisherella ♂ imm. 11 August 1991. wt. 17.0 gms

Banded 77-96170 BL. 16 days old. Parents J15247+248. Reared by J15252 +264
Tissue saved. Bill length 5.57, Bill depth 4.29, Bill width 3.62, wing length 56.71,
Tail length 31.05, Tarsus 19.35, midtoe 18.58, Hallux 13.33,
molt: 3rd 1° $\frac{40.89}{44.24}$, tail $\frac{13.92}{25.22}$; Round 5.74, L-1.14+0.84, L-1.11+0.82

J15252 Melospiza melodia fisherella ♀ adsk. 11 August 1991. wt. 18.0 gms.

Banded 77-96025 BL FW BL. Reared J15251. Mother of 249+250. Tissue saved.
Bill length 9.01, Bill depth 5.39, Bill width 4.20, Wing length 63.16, Tail length 64.33,
Tarsus 20.88, midtoe 17.48, hallux 13.56, Molt: 2nd 1° 20, Round 8.24
Mother of J15264

J15253 Melospiza melodia fisherella ♂ imm. 10 August 1991 wt. 19.0 gms.

unbanded. Tissue saved. Bill length 7.09, Bill depth 5.18, Bill width 3.98,
Wing length 64.37, Tail length 52.29, Tarsus 20.10, midtoe 19.04, Hallux 14.37,
molt: 3rd 1° $\frac{49.09}{51.61}$, tail $\frac{42.38}{50.30}$; Round 6.34 Tick found on right side of
mouth. skeleton Only Right T 1.61 x 1.36; L 2.05 x 1.24



Smith, J

1991

Catalog

36

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

J15254 *Melospiza melodia fisherella* imsk. 10 August 1991 wt. 17.0 gms
unbanded. Tissue saved. Bill length 7.66, Bill depth 5.71, Bill width 4.26,
Wing length 58.10, Tail length 58.57, Tarsus 19.25, Midtoe 17.75, hallux 13.90,
gonads not found molt: 3rd 1st $\frac{47.19}{47.19}$, tail $\frac{56.03}{56.03}$; Roundness 6.50. skeleton only.

J15255 *Melospiza melodia fisherella* adsk. 11 August 1991 wt. 19.50 gms
unbanded. Tissue saved. Bill length 9.31, Bill depth 5.71, Bill width 5.09,
Wing length 64.05, Tail length molt, Tarsus 19.65, Midtoe 18.68, hallux 14.98,
molt: 3rd 1st $\frac{47.19}{47.19}$, tail $\frac{56.03}{56.03}$; Roundness 7.02. skeleton only

J15256 *Melospiza melodia fisherella* ♀ adsk. 11 August 1991. wt. 17.0 gms
banded 77-96149 PK FW BK GR, Tissue saved. Reared J15257. Mother of
transplant 77-96151. Bill length 8.42, Bill depth 5.91, Bill width 4.67,
Wing length 60.40, Tail length 57.71, Tarsus 19.92, Midtoe 17.08,
hallux 13.99, no 1st 10, Roundness 7.22 Gonads + left leg shot
Tapered in body cavity

Big Creek Reserve, 5 mi N Lucia, Monterey Co., California 400 ft elev.

J15257 *Melospiza melodia cooperi* ♂ imsk. 11 August 1991 wt. 15.5 gms
Banded 77-96166 OR. 17 days old. Reared by J15256. This chick was
incubated, reared + collected at Sagehen Creek Field Station, 3 mi NW Hobart
Mills, Nevada Co., Calif 6300 ft elev. Bill length 6.23, Bill depth 4.40,
Bill width 3.92, Wing length 53.60, Tail length 31.00, Tarsus 20.04, Midtoe 16.77,
Hallux 12.54, molt: 3rd 1st $\frac{39.32}{44.05}$, tail $\frac{17.96}{28.44}$. Round 5.98
1 leg + gonads shot

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft.

J15258 *Melospiza melodia fisherella* ♀ adsk. 22 August 1991 wt. 18.5 g
unbanded. Parent of 77-96175-77. Mate of J15259. Tissue saved Bill length 8.95
Bill depth 5.82, Bill width 4.91, Wing length 59.98, Tail length 64.36,
Tarsus shot, midtoe 17.31, hallux 13.21, molt: no
Round 9.57 left ovary 3.44 x 2.16 266 + 266 gms

Smith J
1991

Catalog

37

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co., Calif 63086

J15259 Melospiza melodia fisherella ♂ adsk. 22 August 1991. wt. 21.0gms
unbanded parent of 77-96175-77. Mate of J15258. Bill length 8.26,
Bill depth ~~5.78~~ ^{5.78}, Bill width 5.06, Wing length 60.96, Tail length 57.87,
Tarsus 19.44, Midtoe 17.63, hallux 19.49, molt: Tail coverts
Round 7.02 Tissue saved. L-T 2.57x1.54, R 2.43x1.68

J15260 Melospiza melodia fisherella ♂ adsk. 23 August 1991 wt. 22.0gms
unbanded parent of 77-96185-88 mate of ^{wh} ~~wh~~ ^(J15265) ~~fw~~ Tissue saved.
Bill length ~~9.53~~ ^{9.53}, Bill depth 5.78, Bill width 4.97, Wing
length 65.76, Tail length 64.75, Tarsus 19.32, Midtoe 19.10,
hallux 14.06, molt: Tail coverts, parent of J15262
Round 8.61 L - 2.09x1.59; R 2.04x1.72 Testes-

J15261 Melospiza melodia fisherella ♀ adsk 22 August 1991 wt 19.0gms
banded ~~77-96116~~ ^{GP OR} ~~FW~~ parent of 77-96189-190. Reared 77-96185-
77-96188. Tissue saved. (Mate was banded last yr ~~GP~~ ^{GP} ~~FW~~ ^{FW}?). Bill length 8.53,
Bill depth 5.67, Bill width 4.93, Wing length 62.39, Tail length 66.27,
Tarsus 20.83, Midtoe 16.45, hallux 13.71, molt: Tail coverts no
Round 8.44 left ovary. 9.34x2.46 left leg shot

J15262 Melospiza melodia fisherella ♀ imsk. 22 August 1991 wt. 16.0gms
banded 77-96186 wh. Reared by J15261. Offspring of J15260 + ^{wh} ~~wh~~ ^{FW} ~~FW~~
15 days old. Tissue saved. Bill length 6.22, Bill depth 4.33, Bill width 4.29,
Wing length 52.06, Tail length 21.85, Tarsus 19.06, Midtoe 18.45, hallux 13.80,
molt: ^{Reared 3rd} ^{34.14} ^{12.22} ^{38.93} ^{20.05} Round 7.42
left ovary 2.04x1.24 some fat

J15263 Melospiza melodia fisherella ♂ adsk. 22 August 1991. wt. 21.0gms
Banded 1431-14508 BK. Tissue saved. Bill length 8.37, Bill depth 5.84, Bill width 4.27,
Wing length 66.34, Tail length molting, Tarsus 19.30, Midtoe 18.58, Hallux 13.74,
molt: tail + 1", belly Round 9.23 Right leg shot Testes L-2.24x1.62, R 1.83x2.47
some fat

with, J

1991

Catalog

38

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

- J15264 *Melospiza melodia fischerella* ♂ adsk. 21 August 1991 wt. 24.5 gms
Banded 77-96179 ^{FW}_{BL} ^{WH}_{PK} Mate of J15252. Reared J15251+
Parent of J15249+250. Tissue saved. Bill length 9.17, Bill depth 6.26,
Bill width 5.42, Wing length 65.67, Tail length 65.73, Tarsus 21.15, Mid toe 17.50,
hallux 14.50, no 1st 10's, wing + tail coverts Round 8.94
Both legs shot much fat Testes L 2.42 x 2.04, R 2.13 x 1.76.
- J15265 *Melospiza melodia fischerella* ♀ adsk. 22 August 1991 wt. 20.5 gms
Banded 77-96148 ^{WH}_{FW} ^{WH}_{FW} Mate of J15260. Reared
Parent of J15262. Tissue saved. Bill length 9.22, Bill depth 6.02,
Bill width 4.88, Wing length 60.53, Tail length 61.13, Tarsus 20.38
Mid toe 17.51, hallux 14.56. Molt: tail coverts
Round 5.44 L Ovary 2.22 x 4.07 some fat
- J15266 *Melospiza melodia fischerella* ♀ imsk. 22 August 1991 wt. 21.0 gms
Banded 77-96176 ^{BR} offspring of J15258+259. sib of 77-96175+177. ^{J15268}
29 days old. Tissue saved. Bill length 7.52, Bill depth 5.55, Bill width 4.53,
Wing length 65.41, Tail length 57.70, Tarsus 18.90, Mid toe 18.0, Hallux 13.87,
Molt: 3rd 10 ^{50.27}_{50.27}, tail ^{44.24}_{54.71}. Round 10.28 much fat Left ovary 2.82 x 1.08
- J15267 *Melospiza melodia fischerella* ♂ imsk. 22 August 1991 wt. 15.5 gms
Banded 77-96190 ^{BR} offspring of J15261. sib of J15274. ^{reared by 265 1260 15} ~~26~~ days old.
Tissue saved. Bill length 5.32, Bill depth 4.25, Bill width 4.09,
Wing length 46.88, Tail length 47.92, Tarsus 19.79, Mid toe 17.33,
Hallux 12.25, Molt 3rd 10 ^{31.76}_{37.76}, tail ^{9.84}_{18.98},
Round 6.46 Right leg shot Gonads shot Reared by J15265+260.
- J15268 *Melospiza melodia fischerella* ♀ imsk. 22 August 1991 wt. 17.0 gms
offspring of J15258+259. sib of J15266. Banded 77-96177 ^{BR}. 29 days old
Tissue saved. Bill length 7.41, Bill depth 5.20, Bill width 4.45, Wing length 59.95, Tail
length 54.23 Tarsus 20.20, Mid toe 16.64, hallux 13.60, molt 3rd 10 ^{46.86}_{46.86},
tail ^{39.88}_{46.82} Round 7.13 Left ovary 2.01 x 2.01 some fat

Smith, J

1991

Catalog

39

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 96081

- JIS 269 Melospiza lincolni ♂ adsk. 23 August 1991 wt. 21.0 gms
skeleton only Tissue saved. some fat
- JIS 270 Melospiza lincolni ♂ adsk 23 August 1991 wt. 18.5 gms
skeleton only. Tissue saved. some fat Primaries + tail molting
- JIS 271 Melospiza melodia fisherella ♂ imsk 22 August 1991 wt. 21.0 gms
skeleton only. Tissue saved. Gonads shot some fat
- JIS 272 Melospiza melodia fisherella ♀ imsk 22 August 1991 wt. 21.0 gms
skeleton only. Tissue saved some fat
- JIS 273 Melospiza melodia fisherella ♂ imsk 22 August 1991 wt. 17.5 gms
offspring of JIS 265 + 260, Reared by JIS 261, sib of JIS 262.
Tissue saved. Banded 77-96185 wh. 15 days old. Bill length 5.94,
Bill depth 4.19, Bill width 3.66, wing length 52.78, tail length 24.51,
Tarsus 20.99, Mid toe 16.71, Hallux 13.43, Molt: 3rd 1° $\frac{33.52}{40.05}$
tail $\frac{12.58}{20.28}$; Round 4.47 left leg shot, right leg shot much fat
left T 1.02 x 1.03, R 0.8 x 1.0
- JIS 274 Melospiza melodia fisherella ♂ imsk 23 August 1991 wt. 15.5 gms
Banded 77-96189 GR sib of JIS 267, offspring of JIS 261, Reared by
JIS 265 + 260. Tissue saved. 16 days old. Bill length 5.19, Bill depth 4.44,
Bill width 4.24, Wing length 51.06, Tail length 22.79, Tarsus 18.71, Mid toe 17.5,
hallux 13.09, Molt 3rd 1° $\frac{33.09}{40.33}$, tail $\frac{8.71}{17.82}$; Round 4.59
left Testis L 21 x 0.87 R 1.35 x 0.89. some fat
- JIS 275 Melospiza melodia fisherella ♂ imsk. 21 August 1991 wt. 19.5 gms
Banded 77-96167 YL. 28 days old. Reared by JIS 252 + 264. sib of JIS 251
Parents are JIS 247 + 248. Tissue saved. Bill length 6.64, Bill depth 5.10,
Bill width 4.51, Wing length 64.07, Tail length 54.75, Tarsus 20.62,
Mid toe 17.47, Hallux 14.19, Molt 3rd 1° $\frac{50.21}{50.21}$, tail $\frac{39.68}{48.69}$;
Round 6.31 Testis L 1.50 x 1.19 R 1.29 x 1.09. some fat

Smith, J
1989

Y

Banding Catalog

31-14505
1B

~~Russell Is. Reservation~~ ~~2 mi NW Lafayette~~ ~~Contra Costa Co. Calif~~
♂? left leg FWS rt leg white date - 9 Mar 1989
red pink

Bill length - 8.5 ; Bill depth - 4.0
Bill width - 4.5 ; wing length - 60
tail length - molting central ; tarsus 20
mid toe 18 ; hallux w/ claw 12.5
molt:

Brood patch

age

Skull

fat

cloacal protub 5.0

remarks - captured in net set around
wood pile ~ 75 yds NE of mulberry patch.

03 1-08901 Russell Is. Reservation

9 Mar 1989

① u? left leg ~~blue~~ rt yellow
~~green~~ blue
FWS

Bill length - 8.75

Bill depth 5.0

Bill width 4.0

wing length 56

Tail 57

Tarsus 18

mid toe 19

hallux w/ claw 14

molt - none

cloacal protub 4.0

Brood patch no

age ?

Skull

fat - sit fine fat

remarks left main toe deformed

Suitly
1989

Bandy-Catley

2

8902

031-8902

(1)

Russell Tree Reservation, 2 mi NW Lafayette Contra Costa Co, Calif

Left leg green/FWS Rt. ~~orange~~ orange/Black

9 May 1989

Bill length 9.0

Bill width 5.5

tail length 61

mid toe 20

molt-head

Brood patch no

gc

fat - slt fine fat

remarks rear of head very bare and dry

only 2 obvious pin feathers

Bill depth 6.0

Wing length 59

Tarsus 19

hallux/claw 14

cleareal prob 6.0

skull

2031-8903

BK :
FWS :

Green
OR

caught at small pond
in pond at S of
picking area

Bill length 9.0

Bill width 4.5

tail length 63

mid toe 17

molt no

Brood patch no

Age

fat lower belly

remarks

Bill depth 5.5

Wing length 60

Tarsus 20

hallux/claw -

cleareal prob. 6.5

skull

with (J)
1989

Banding Catalog

3

Russell Her Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif.
1300 ft.

14 Mar

2031-8904 ♂ at the mulberry bush

Left Blue / FWS : Rt Red / green

Bill length 8.5

Bill width 4.5

tail length 6.5

mid toe 17.0

molt

Brood patch no

age no

fat no

remarks

Bill depth 5.5

wing length 60

Tarsus 19.5

hallux & claw 13

skull

cloacal 5.5

wt (30 Mar) 23.0g

2031-8905 at the brush pile NE of mulberry

Left Rd / FWS : PL / BR. ♀?

Bill length 8.5

Bill width 4.5

Tail length 5.8

mid toe 17

molt

Brood patch no

age no

fat no

remarks

Bill depth 5.5

wing length 58

Tarsus 22

hallux claw 12

skull

cloacal prot. 3

Smith J

1989

Birdy Catdog

4

Runed Tree Reservoir, San Mateo County, Contra Costa Co., Calif. 1300ft.

17 Mar

2031-8906 ♀

Y_L FW: $\frac{44}{OK}$

Area 5 of mulberry in Backus

Bill length 8.0

Bill width 4.0

tail length molt

mid toe 18.0

molt tail

Brood patch no

age

fat 0/2

remarks: Has large tick on left side of cap. Below
9 beg heard full song by possible mate while banding

Bill depth 5.0

wing length 59

tarsus 18.5

hallux/claw 13

skull

cloaca 5.0

Killed by
17 Mar
Cooper's Hawk
1/4 net

2031-8907?

Y_L FW: $\frac{BK}{PK}$

west of mulberry in Backus

up the slope

Bill length 9.0

Bill width 4.5

tail length 61

mid toe 17

molt no

Brood patch no

age

fat

remarks

Bill depth 5.5

wing length 67

tarsus 19

hallux/claw 13.5

skull

cloaca 6.5, swollen

wt 21.5

with 1 ♀
1989

Banding Catalog

5

Russell Tree Reservation 2 mi NW Lafayette Contra Costa Co. Calif.

28 Mar 2031-8908 In the Hemlock patch E of mulberry tree ~ 150 yds. ~~FW~~ ~~PK~~ ~~DL~~ ~~BK~~

Bill length 6.5
Bill width 4.5
tail length 57
mid toe 18.0
molt no
brood patch no
age
fat no
remarks

Bill depth 5.5
wing length 60.0
tarsus 21.0
hallux w/ claw 14.0
skull no
cloaca 7.0

2031-8909

$\frac{BK}{FW} : \frac{PK}{TL}$

At the Birch pile

By the pond.

Bill length 8.0
Bill width 4.0
tail length 56
mid toe 17
molt no
brood patch no
age
fat
remarks:

Bill depth 5.0
wing length 58
tarsus 20
hallux w/ claw 13
skull
cloaca 4.5

Smith J

1989

Birdy Catalog

6

28 Mar

2031-8910

OR . BL
FW . RD

on W side of pond. in Hurlack

Bill length 9.0

Bill width 5.0

tail length 60

mid toe 16

noft

brood patch ~~stagnant~~

age

fat cloacal

Bill depth 5.5

wing length 62

tarsus 20

hallery w/claw 12.5

skull

cloaca 7 swollen

remarks: It would give a full ♂ song and then
flap its wings back and forth like pre-cop motion.
screamed as I pulled it out just.

30 Mar

2031-8911 ♂ wh/fw: BK/GR on N hillside 100 yds

N of cattail pond above the electric fence plot

Bill length 8.5

Bill width 4.5

tail length 60

mid toe 17.5

noft

brood patch no

age

fat no

Bill depth 5.5

wing length 59


tarsus 21

hallery w/claw 13.0

skull

cloaca 6.0 swollen

wt 20.5

remarks - uropygial gland enlarged 

Smith, J.
1989

Banding Catalog

7

Rumell Dec 100.

30 Mar

2031-8912 ♂

44 cattail pond

$\frac{FW}{BR} : \frac{OR}{BL}$

Bill length 8.5

Bill depth 5.5

Bill width 4.5

wing length 59

tail length 62

tarsus 20

mid toe 19

hallux w/ claw 14

molt

skull

brood patch no

clouner 7.0

age

wt -

fat no

remarks

31 Mar

2031-8913 ♀

2 most tenney near pin

grove.

$\frac{FW}{BK} : \frac{RD}{BL}$

Bill length 8.0

Bill depth 5.0

Bill width 4.5

wing length 55

tail length 56

tarsus 20

mid toe 19

hallux w/ claw 12.5

molt

skull

brood patch long wing

clouner 6.0

age

wt 18.0

fat

remarks - tongue caught in net, bled.

Smith
1989

Banding Catalog

8

Russell Lake Res. 2m: NW Lafayette, Contra Costa Co., Calif 1300 ft.

31 Mar ~~2031-8914~~⁸⁹¹⁵ ♂ male y 8913. ~~FW/BK: ~~85~~ 72~~ ~~left leg Broken Banded~~ ~~FW/BK: ~~85~~ 72~~

at the pine grove on E end of reserve.

Bill length 9.0

Bill depth 6.0

$\frac{FW}{BK} = \frac{BK}{TL}$

Bill width 5.0

wing length 58

tail length 59

tarsus 21.0

mid toe 20

hallux w/ claw 15.0

molt no

skull

brood patch

claw 7.0

age

wt

felt furcular

Remarks: flowered orange note on tip of

claw

1B 1431-4506 ♂

~~2031-8915~~

♂

By end of east drive 50 yds W of

road circle.

~~FW/BK: ~~85~~ 72~~ left leg Broken Banded \div : $\frac{FW}{BK}$

Bill length

Bill depth

Bill width

wing length

tail length

tarsus

mid toe

hallux w/ claw

molt

skull

brood patch

claw

age

wt

fat

Remarks: Had large fleshy tarsi



Smith, J
1989

Banding Catalog

9

Russell's Gnatcatcher. 2 mi NW Lafayette, Contra Costa Co. Calif. 1300ft
1 April 2031-8916 ♀. Nettle on W side of draw with small
pine grove. FW/BL: $\frac{Y}{OR}$

Bill length 8.0	Bill depth 5.5
Bill width 5.0	Wing length 60
tail length 58	tarsus 19.0
mid toe 17.0	hallux w/claw 13.0
molt no	skull
broodpatch no	cloaca 4.0
age	wt 19.0 (?)
fat some fat on belly	
remarks	

2031-8917 ♂ mate of 8916. Nettle in W side of draw
with small pine grove Σ ~~100~~ 200 yds from central
valley. FW/BL $\frac{PK}{GR}$

Bill length 9.0	Bill depth 5.5
Bill width 4.5	Wing length 58
tail length 59	tarsus 19.5
mid toe 18.0	hallux w/claw 14.0
molt no	skull
Age broodpatch no	cloaca 7.0 swollen
age	wt 20.5
fat at lower breast	
remarks	

Smith, J
1989

Banding Catalog

10

Russell Tree Reservations 2 mi NW Lafayette, Contra Costa Co. Calif
4 April 2031-8918 ♂ FW/OR: WH/RD 1800pt

Nestled on S side of draw with small
pine grove ad FW/BL's.

Bill length 9.0

Bill depth 5.5

Bill width 4.5

wing length 63.0

tail length 63.0

tarsus 20.0

mid toe 17.5

hallux w/ claw 14.0

molt no

skull

brood patch no

cloaca 9.0 swollen

age

wt 22.5

fat under sternum

remarks 155

18 April Sawyer Creek Field Sta.

Nevada Co., Calif

2031-08919 ♂ RD/FW OR/BL

Singing

~~1411-1507~~

Bill length 9.5

Bill depth 6.5

Bill width 5.5

wing length 68

tail length 60

tarsus 20

mid toe 20

hallux w/ claw 15

molt no

skull

brood patch no

cloaca 8.0 swollen

age

wt 21.5

fat some pinules ad below sternum

remarks lost 7 tail feathers while banding
fledged territory on S side of creek
150 yds from foot bridge in willows
fuddy

with 18
1989

Birdy Catalog

11

Sagehen Creek Field Station

18 April 2031 - 08920 ♂ YL/FW BIC/GR singing

Bill length 10

Bill width 5.5

tail length 70

mid toe 18

molt no

broodpatch no

age

fat little fat some below sternum

remarks had small lice like creatures 1mm long

body segment 2x width of head Tail worn

In a willow thicket 100yds S of 1st

territory flagged it too

Bill depth 7

wing length 70

Tarsus 20

hallux w/claw 14.5

skull

clouca 7.0

wt 21.0

2031-08921 ♂ BL/FW PK/BL

call on island E of YL/FW 350yds flagged

Bill length 9.5

Bill width 5.0

tail length ~~65~~ 65

mid toe 20

molt no

broodpatch ?

age no

fat under sternum

remarks:

Bill depth 5.5

wing length 69

Tarsus 21

hallux w/claw 15

skull no

clouca 6.0

wt escaped

Smith, J

1989

Banding Catalog

12

Sagehen Creek Field Station

18 April

2031-08922 ♂ BK/FW RD/YL

60 yds east of BY/FW on S side of creek. Flipped

Bill length 9

Bill width 6

Bill depth 5

wing length 67

tail length 65

Tarsus 19.5

mid toe 19

hallux w/ claw 16.0

molt no

skull no

brood patch no

cloaca 7.0

age

wt 20.0

first indeterminate

remarks

2031-08923 ♂ ~~BK/FW~~ GR/WH

75 yds E of BK/FW S side of creek in willows. Flipped

Bill length 8.5

Bill width 6.0

Bill depth 5.0

wing length 70

tail length 71

tarsus 20

mid toe 20

hallux w/ claw 15

molt no

skull

brood patch no

cloaca 7 swollen

age

wt 20.5

first indeterminate

remarks

Smith G

1989

Banding Catalog

13

Sagehen Creek Field Station

18 April

2031-08924

PK
FWBK
OR

♂?

± 60 yds from OR
FWThis is the territory where I found nest last year ^{flipped}

Bill length 9.5

Bill depth 6.0

Bill width 5.0

Wing length 71

tail length 72

tarsus 20

mid toe 19

hallux w/ claw 15

moet no

skull no

broodpatch no

cloaca 0.5 swollen

age no

wt 20.0

fat much present on pat, very little stored

remarks

19 April

2031-08925 ♂ wh/FW PK/RO

1st ♂ 5 sides of neck from wing to in capitate with all the maxilla ^{broken} dam

Bill length 9.5

Bill depth 6.0

Bill width 5.0

Wing length 70

tail length 69

tarsus 20

mid toe 20

hallux w/ claw 15.0

moet no

skull no

broodpatch no

cloaca 9

age no

wt 19.0

fat no

remarks

scaly at bottom of head/feather shafts

Smith 1989

Banding Catalog

14

Sagehen Creek Field Station

19 April

2031-08926 ♂

GR/FW $\frac{OR}{TL}$

Bill length 9.0
Bill width 5.0
tail length 66
mid toe 21.0
molt no
broodpatch.
age
fat no
remarks

Bill depth 6.0
wing length 65
Tarsus 21.0
hallux w/claw 16.0
skull
cloaca 7.0
wt 19.5

2031-08927 ♂

FW/RO $\frac{BL}{WH}$

Bill length 9
Bill width 5
tail length 67
mid toe 19
molt no
broodpatch no
age no
fat no
remarks

Bill depth 6
wing length 69
Tarsus 20
hallux w/claw 16.0
skull
cloaca 7.0
wt 19.0

Smith, J

1989

Banding Catalog

15

Sagehen Creek Field Station.

19 April

2031-08928 ♀

Fu/RD

PK

/BK

mated to 08927

Bill length 2.5

Bill width 5.0

~~Tarsus~~ tail 63

mid toe 20

molt no

broodpatch ~~no~~ lower starting feathers less

age no

fat some preclavicular sternum
remarks

Bill depth 6.0

wing length 66.5

Tarsus 20

hallux w/claw 15

Skull

claw 4.0

wt 19.0

1431-4507 IB

~~2031-08929~~ ♂

FW/YL

BL/GR

Bill length 5.0

Bill width 6.0

tail length 67

mid toe 19

molt - yes tail, back molt, tail corrects skull

broodpatch

age

fat no

remarks - tail molt left outer 3 feathers $\frac{1}{3}$ emerged

rt side 3rd and 4th from outer $\frac{1}{3}$ emerged

Bill depth 6.0

wing length 68

tarsus 19

hallux w/claw 14

claw 7.0

wt 20.0

Smith, J

1989

Banding Catalog

116

Sagehen Creek Field Station

19 April

~~1431~~ - ~~1458813~~ ♂

FW/BL

UL/BK

Bill length 8.5

Bill width 4.5

tail length 64.0

mid toe 19.0

molt no

broodpatch no

age

fat l.t. fore abdominal

remains yellow at margin of bill, no on back of
occiput, with ♀ calling

2031-08929 ♂ FW/BK ~~GR/BL~~ GR/RD ♂

Bill length 9.5

Bill width 5.0

tail length 70

mid toe 19.5

molt no

broodpatch no

age

fat l.t. fore

remains

Bill depth 6.0

wing length 68

tarsus 20

hallux w/claw 16.0

skull

cloaca 7.0

wt escaped

Smith, J
1989

Banding Catalog

17

Sagehen Creek Field Station

19 April 1431-14510 ♂^B FW/OR WH/PK

Bill length 9.5
Bill width 5.5
tail length 71
mid toe 18.5
molt no
broodpatch no
age
fat no
remarks

Bill depth 6.0
wing length 68
tarsus 20
hallux w/ claw 15.5
skull
claca 7.0
wt 21.0

1431-14511 ♂^B FW/PK YL/OR

Bill length 9.5
Bill width 5.5
tail length 69
mid toe 20
molt no
broodpatch no
age
fat functional some
remarks

Bill depth 6.0
wing length 66
tarsus 20
hallux w/ claw 16.0
skull
claca 8.0
wt 22.5

/

1

Smith, J
1989

Birdy Catalog

18

Sagehen Creek Field Station

19 April 2031-08930 ♂⁷ FW/wh $\frac{BL}{BK}$

Bill length 10
Bill width 5.5
tail length 70
mid toe 19.5
molt no
brood patch no
age
fat stored
remarks

Bill depth 6.
wing length 66
tarsus 20
hallux w/claw 14.5
Skull
cloaca 9.0 swollen
wt 22.0

1431-14512 ♂ FW/GR

RD/OR

territory just east of ⁷⁵⁹⁴⁰ PK/FW BK/OR

Bill length 9.0
Bill width 5.0
tail length 71
mid toe 19
molt tail coverts
brood patch no
age
fat much fat, some stored
remarks

Bill depth 6.0
wing length 69
tarsus 18
hallux w/claw
Skull
cloaca 9 swollen
wt 22.5

Smith, J

1989

Banding Catalog

19

Sagehen Creek Field Sta

20 April

~~1431~~ - ~~08931~~ ^{14513¹⁸} ♂

$\frac{YL}{RL}$ $\frac{WH}{FW}$ $\frac{W}{TB}$

N side of creek 1st ♂ E of meadow

Bill length 9.0

Bill depth 5.5

Bill width 5.0

wing length 65

tail length 66

tarus 20

midtars 19.5

hallux w/ claw 16.0

molt tail coverts

skull

brood patch no

claw 7.0

age

wt 22.5

fat some sternal

remarks

2031-08931 ♂? GR/PK GR/FW

Bill length 8.5

Bill depth 5.5

Bill width 4.5

wing length 69

tail length 72

tarus 20

midtars 19.0

hallux w/ claw 15.0

molt tail coverts

skull

brood patch

claw 8.0

age

wt 21.0

fat some sternal

remarks

Smith, J
1989

Banding Catalog

20

Sagehen Creek Field Station

20 April 203108932 ♂

$\frac{BK}{WH}$

$\frac{RD}{FW}$

$\frac{GR}{FW}$

Bill length 10.0

Bill width 5.0

tail length 7.3

mid toe 2.0

molt no

broodpatch no

age

foot silt fine

remarks

Bill depth 6.0

wing length 70

tarsus 20

hallux w/ claw 16.0

skull

claw 8.0

wt 22.5

1431-14516 IB

~~2031-08933~~ ♀

FW/GR

BL/YL

mate of FW/LR RD/OR

Bill length 9.0

Bill width 4.0

tail length 6.6

mid toe 20.0

molt 5th left from outer $\frac{2}{3}$ emarginate skull

broodpatch no

age

foot furcal stored some

remarks

Bill depth 5.5

wing length 67

tarsus 19

hallux w/ claw 15.

claw 4.0

wt 20.5

plus tail coverts $\frac{1}{2}$ to $\frac{2}{3}$ emarginate 4 on rt side none on left

June 19
1989

Birdy Catalog

2/

Russell Lee Res. 2 mi NW Lafayette, Contra Costa Co. Cal 1300 ft
27 April nestlings at mulberry bush, other nestly jumped out
w/ calpers

Nestling 1 1431-14577 on left BL/PRK on rt
~~2031-08933~~

Bill length 5.00

Bill length 3.78

Bill width 3.86

wing length 34.21

tail length 11.52

tarsus 19.38

mid toe 17.67

hallux w/ claw 10.53

molt 10's 1/10 out back well feathered

Skull

brood patch ^{head and belly well} feathers

cloaca

age

wt 18.5

fat much sternal and pericardial

remarks

Mother BL/PRK OR/PR
~~Nestling 2~~ 2031-08933

Bill length 8.81

Bill length 5.90

Bill width 4.54

wing length ~~55.5~~ 55.71

tail length 57.04

tarsus 18.78

mid toe 16.82

hallux w/ claw 14.02

Molt no

Skull

brood patch yes

cloaca 4.53

age ad

wt 18.0 g

fat no

remarks

nearly #4

1431 - 14520

BL 4.74

SD 3.55

TL 6.42

mid toe 16.50?

BL/RO #4

BW 3.20

WL 27.81

T 18.35

haller index 12.30

wt 16.0g

10's just emerged

Smith, J

Banding Catalog

22

Russell Tree Res., 2 mi NW Lafayette, Contra Costa Co, Calif. 1350 ft

27 April

nesting ~~2031-08934~~ ^{BL} _{RD} ♀ ^{F10/BL}

Bill length 4.27

Bill depth 3.90

Bill width 3.71

wing length 28.32

tail length 4.87

Tarsus 17.65

mid toe 18.55

huller w/c claw

10's just barely out at tip tail sheath ^{downy on back}

Strect 11.36

wood patch no

belly out 1/3

doaca

age

wt 15.0 g

fat none on sternum

Remarks

2nd 1431-14518

^{BL} _{RD}

BL 4.33

BD 3.68

BW 3.29

WL 25.96

TL 7.11

Tar 19.52

mid toe 18.06

huller w/c claw 11.69

10's just out, tail not fully per averaged

back 1/2 out belly 1/3 out

sternal fat

wt 15.0 g

3rd 1431-14519

^{BL} _{RD}

BL 4.72

BW 3.71

BD 3.61

WL 29.08

TL 7.70

Tar 18.07

mid toe 16.77

huller w/c claw 11.43

wt 15.25

1989

Bach Catalog

23

Russell Inc Res. Zuni NW Lafayette, Contra Costa, Calif 1300ft
29 April nestlings of PK/FW BK/BK
PK/

1431-14521 PK/BK

Bill Gay Jr 4.46

Ball Size 3.08

Bill with 3.30

wygr 24.68

Full Cost \$4.07

Tarus 17.17

mid fol 1986

Galaxy 10 class 11.75

fat sternal

wt 14.5

adult 1st just pin feathers back posturing, downy head, belly, 1/4
back patch down

1431-14522 PX/BK

Bill by the 4.05

Bull depth 3.39

Bell worth 3.25

wygr 24.23

and re 16-66

Tesis 17.06

fat storage adipose

hallyw/chr 10.15

not damage it

wt 13.5

конкурс

2 May

2031-08935 ♂ RD/FU BL/PK

Ball length 8.87 Ball depth 5.51

Bill width 4.73 wing length 60.80

tail length 61.40 Tarsus 17.37

maître 17.62

work w/claw 13.49

molt tail left on 3 outer feathers at base 5 feathers is

brood patch

clean 8.65 x 6.97 smaller

azi

wt 18.5g

fast much here! several

Remarks

with J
1939

Banding Catalog

24

Russell Ice Res. 2 mi W Lafayette, Contra Costa Co. Calif 1300 ft
4 May 2031-08936 ♀ ^{PK}/FW ^{BK}/RD

Bill length 8.80
Bill width 4.51
tail length 54.19
mid toe 19.05
molt no
brood patch yes
age
fat no
remarks

Bill depth 5.11
wing length 53.46
Tarsus 18.34
hallux w/ claw 13.57
Molt
clouea 4.60 x 3.92
wt 18.5g

Nestling of pair S of FW/OR

nestling 1-2031-8937 ^{FW} ^{OR}

Bill length 4.72
Bill depth 3.37
Bill width 4.23
wing length 26.52
Tail length 4.27
Tarsus 16.79
mid toe 19.65

hallux w/ claw 11.13

molt 3.68/4.25 Back emerged, head downy, 1st act emerged

Fat stored 3.72/4.78 belly

remarks

wt 15.0g

nestling 2-2031-8939 ^{FW} ^{OR}

~~Bill depth~~ 4.26

3.44

3.18

26.17

3.70

17.43

17.34

11.06

same molt

Stomach

14.0g



Smith, J
1989

Banding Catalog

25

~~Russell J. Res. 2 mi NW Lafayette, Contra Costa Co., Calif 7300 ft~~
4 May nestling 3-2031-08938 $\frac{1}{4}$ FW $\frac{BK}{GR}$ nestling 4 ²⁰³¹⁻⁰⁸⁹⁴⁰ $\frac{1}{4}$ FW $\frac{WH}{OR}$
Bill length 4.72 4.55
Bill ~~depth~~ 3.13 3.57
Bill ~~width~~ 4.04 3.57
Wing length 27.08 25.58
Tail length 3.52 2.50
Tarsus 16.06 15.59
Middle toe 20.05 20.28
Hallux with claw 12.23 11.76
Molt same as above same
Fat sternal adjacent same
wt 14.5g 12.5g
Remarks

2031-08941 ♀ $\frac{1}{4}$ FW PK/YC

Bill length 9.05

Bill ~~depth~~ 5.72

Bill ~~width~~ 4.40

Wing length 55.43

Tail length 52.81

Tarsus ~~18.59~~ 19.14

Middle toe 17.44

Hallux with claw 14.04

Molt no

hood patch yes

Skull.

Chow 2.47 x 2.98

fat same as before
eye
remarks
wt

Suit, D
1989

Banded Catalog

26

Russell Franks, 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft

Y M age

2031-08942 ♂ YL/FW BL/FW

Bill length ~~9.27~~ 8.87 Bill ^{depth} ~~width~~ 5.64

Bill ~~depth~~ width 4.52

wing length 60.19

tail length 59.97

tarsus 19.62

mid toe 17.15

hallux w/ claw 14.06

molt no

skull

broodpatch no

claw 6.64 x 6.29

age

wt 20.0g

fat sternal

remarks

2031-08943 ♀ $\frac{GR}{FW}$ $\frac{RP}{QR}$

Bill length 8.47

Bill depth 5.58

Bill width 4.79

wing length 55.35

tail length 54.89

tarsus 18.35

mid toe 16.89

hallux w/ claw 13.35

molt

skull

broodpatch yes

claw 2.14 x 3.45

age

wt

very w/ drawn

fat sternal some

remarks

Smith, J
1989

Banding Catalog

27

Russell Tree Res. 2 mi NW Lafayette, Contra Costa Co, Calif 1300 ft

5 May

2031-08944 ♂ FW/YL ~~GR/wh~~ GR/wh

Bill length 9.04

Bill width 4.54

tail length 61.33

mid toe 19.75

molt no

brood patch no

age

fat

remarks, tarsus l. to colored but toes dark and
armored looking

Bill depth 5.82

wing length 60.81

tarsus 16.87

hallux to claw 13.64

Stool

claw 7.86 x 4.85

wt 20.25g

Banded

Nestlings of FW/BK RA BL and FW BK BK
2031-08945 YL RD 46 BK GR BL 47 BK WH

Bill length

4.16

4.24

3.79

Bill depth

3.54

3.62

2.92

Bill width

3.14

3.39

3.08

wing length

27.24

24.96

22.11

tail length

3.80

2.85

1.13

tarsus

17.50

16.85 bleeding

15.40

mid toe

19.37

19.04

18.00

hallux to claw

11.80

11.30

10.64

fat

multisternal at fore

same

less sternal at mid less fore than others

wt

13.0g

13.75

12.0g

remarks

5 10's just out of sheath

no 10's out of sheath

molt

10's not out of pin, back 3.04/5.05, belly 3.35/4.05, 2's just out of 2 downy here

tarsus too small for black band

Smith J
1989

Banding Catalog

28

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft

11 May 2031-08948 ♀ ad RD/FW ^{WH}/OR

Bill length 8.91

Bill width 4.72

tail length 66.39

mid toe 18.36

molt

Broodpatch yes edematous

age

skull

Bill length 6.36

wing length 66.03

Tarsus 19.10

hallux w/ claw 14.00

fat some sternal at base

chacal protuber 4.45 x 0.96

remarks stomach seemed distended
perhaps with an egg.

wt 25.0 g

2031-08949 ♀ ad ^{BL}/FW ^{GR}/OR

Bill length 8.62

Bill width 5.14

tail length 60.88

mid toe 17.65

molt

Broodpatch yes, edematous

age

skull

Bill length 5.86

wing length 61.56

tarsus 19.10

hallux w/ claw 13.55

fat some sternal

clouca 5.55 x 1.91

wt 24.0 g

remarks tail worn

belly distended

16 May ~~Sagehen Creek~~ Russell Ave Res., 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft

2031-08950 nestling of ^{OK}/FW see pg 90

2031-08951 nestling of ^{OK}/FW see pg 90

with, J
1989

Banding catalog

29

Sagehen Creek Field Station

21 May 2031-08952 ♀ OR/YL $\frac{RD}{FW}$ mate of BK/wh $\frac{RD}{FW}$ ♂

Bill length 8.95

Bill width 4.63

tail length 67.55

midtars 21.90

molt tail 4th from outside on left ~~28~~ molted patch yes, wrinkled
age

fat some fat

wt 22.5g

Bill depth 6.10 —

wing length 62.29

tarsus 18.25

hallux w/ claw 14.41

skull ~~28~~

claw 4.31 x 2.20

remarks mid toe rt leg has
strange "corn" at junction nail
with bone

2031-08953 ♀ YL/FW $\frac{PK}{RD}$

Bill length 8.82

Bill width 4.65

tail length 66.58

midtars 19.92

molt no

age

fat much fat, some skeletal

wt 22.0g

Bill depth 6.19

wing length 62.05

tarsus 17.24

hallux w/ claw 14.40

Brood patch yes, wrinkled

skull

claw 3.47 x 2.15

remarks

Smith, J
1989

30

Sagehen Creek

26 May

2031-08954 ♀

BL/BK wh/FW

Bill length 8.89

width 7.98

tail length 61.45

mid toe 18.81

molt no

age

fat set pure

~~remains~~ SWT 19.0g

on 2nd toe of left foot missing also missing
on rt foot

length 5.44

wing length 60.89

tarsus 18.23

hallux w/ claw 13.14

brood patch yes

skull

cloaca 3.60 x 3.60

remarks nail

1 June

2031-08955 imm

BL/FW YL/BK

2031-08956 BL/FW RD/WH

Bill length 4.02

depth 3.27

width 3.52

wing length 21.16

tail length 1.02

tarsus 13.86

mid toe 17.69

hallux w/ claw 9.76

molt 10⁺ spots emerged, 1.84/4.81, 1.83/1.09
BACK belly

age

fat

some remains of pure

cloaca

3.36 x 2.14

wt

14.50g

remarks

in nest of BL/FW GR/OR at BL, eyes shut

4.61

3.30

3.37

23.41

1.85

16.58

18.83

11.14

10⁺ spots, Back 3.18, head down 2.43
5.96, Bell 5.15

remains pure, slender

4.34 x 1.83

14.0g

eyes open

Smith, J
1981

Birding Catalog

31

Sage

1 June

2031-08957 imm GR/PK Y/FW
Bill length 3.56 depth 2.71
width 2.99 wing length 19.41
tail length 1.00 tarsus 14.55
mid toe 17.08 hallux w/claw 9.70
molt 10's not out, back 1.03/5.08 belly 0.59/2.00
age
fat full, stern, belly - some
cloaca 4.10 x 2.04 wt 12.0g
remarks ♀ singing, eyes open. Nesting of wh/FW
Russell transfer.

2031-089 - Nesting of Y/FW's

	58/40	59 YL	60 YL	61 YL
Bill length	4.49	3.82	4.59	4.51
depth	3.74	3.72	3.71	3.86
width	3.45	3.13	3.55	3.63
wing length	31.14	25.96	28.90	30.64
tail length	5.71	3.73	4.32	5.82
tarsus	18.09	16.53	17.79	17.47
mid toe	19.55	18.44	19.15	21.17
hallux w/claw	12.31	11.36	12.94	13.04
molt	10 3.45/21.51 3rd 04 6.22/20.5 BE	3.70/17.42	5.05/21.65	5.60/21.46

R Hey marked

age
fat full, stern, belly - some
cloaca 3.37 x 1.61 4.29 x 1.79 3.57 x 1.87 2.79 x 1.79
wt 17.0g 14.0g 16.0g 17.0g
remarks eyes open eyes open - not nesting eyes open eyes open, top of mandible hurt

Smith, J
1989

Bandy Catalog

32

Sagehen Creek Field station

1 June 2031-08962 ad GR, nestly in Fw ^{R¹²} for for's nest
partly change from B⁴/Fw

Ball Gay to 4.42

lyt 3.62

width 3.50

wy 67 22.67

Tail length 2.20

tarsus 15.28

med for 17.66

hallux w claw 11.59

molt 1st not out, Back $\frac{3.58}{6.58}$, belly $\frac{1.19}{4.46}$

age

Cloaca 4.49 x 2.36

wt 15.0g

Remarks eyes open, but droopy

2031-08963 ♀ YL/WL OR/FW, banded 50% GR/OR GR/FW

Bill Gay R 8.62

Apr 12 5.49

width 4.82

avg Cg \$56.51

tail length 59.70

basin 17.79

redox ~~17.79~~ 20.33

valley to Glen 14.28

most rt center $\frac{5}{6}$ out

Goodpatch yes, wrinkled

az

Clones 4.33 + 2.63

wt 21.25

состав,

fat-sometime

Sieff, J
1989

Banding Catalog

33

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co., Calif 95968
2 June 2031-08964 ♂ $\frac{Y}{L}$ FW OR/PK, came into $\frac{Y}{L}$ FW's
territory when male got captured and ♀ was sitting
Bill length 8.74 depth 6.18
width 5.01 wing length 66.92
tail length 69.40 tarsus 18.34
middle toe 21.35 hallux w/ claw 14.86
molt NO brood patch NO
Cloaca 8.02 x 7.11 wt 22.25g
remarks left nostril has something in it
Not pure fat

10 June 4 nestlings at unmarked pair

11 June 4 nestlings of $\frac{Y}{L}$ FW OR/PK ♀

	2031-08965 $\frac{PK}{L}$ OR/PK FW	2031-08966 $\frac{BK}{X}$ OR/PK FW	$\frac{Y}{L}$ OR/PK FW ^{tarsus too}	$\frac{BL}{X}$ OR/PK FW
Bill length	4.18	4.35	4.40	4.39
depth	2.98	3.44	3.71	3.30
width	3.50	2.97	3.49	3.27
wing length	25.99	22.18	25.52	25.66
tail length	3.26	not out	2.80	2.31
tarsus	17.42	15.67	14.76	18.10
middle toe	19.50	17.80	19.56	18.75
hallux w/ claw	11.41	11.51	11.31	11.04
molt	3rd 10 $\frac{6.24}{2.47}$ back 6.89 early 2.99	$\frac{0}{11.06}$, $\frac{0}{3.18}$, $\frac{1.64}{4.37}$	$\frac{2}{13.74}$, $\frac{1.35}{4.58}$, $\frac{1.55}{4.19}$	$\frac{0}{13.78}$, $\frac{2.41}{5.68}$, $\frac{1.99}{4.60}$
fat	much fat, sternum belly	same	same	some plus some on
wt	16.50g	14.50g	16.0g	16.50
remarks	eye open, but blurry	same	same	same

Smith, J
1939

Banding Catalog

34

Russell Lake, 2 mi. NW Lafayette Contra Costa Co., Calif 1300 ft
30 June 2031-08968 young of year unknown parents. Band Trapped
near moulting / w. claw clump.

BK / FW $\frac{wh}{OR}$

Bill length 8.75

depth 5.76

width 5.10

wing length 59.07

tail length 60.35

tarsus 18.53

midfoot 18.62

hallux w/ claw 14.15

molt no

brood patch ? see remarks

age fledgling

skull

fat much present and several cloaca 3.53 x 7.93

wt 19.0 g

remarks, belly bare, yellow at
tail margin

8 July Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., CA 6300 ft

lt by FW #2031-08990 Capt Red / FW #2031-08989 Red

Bill length 5.49

5.08

depth 4.45

3.71

width 4.32

4.16

wing length 35.56

33.19

tail length 10.60

5.86

tarsus 19.45

17.57

midfoot 19.89

21.54

hallux w/ claw 13.45 $\frac{7.81}{24.82}$

12.99

molt 3rd 1^o 24.82 back $\frac{7.87}{14.50}$ belly $\frac{8.97}{13.30}$

3.95 / 20.32, $\frac{3.26}{10.04}$, $\frac{3.96}{8.90}$

age nestling

feet much present at shoulders

same

cloaca 6.57 x 5.07

7.27 x 4.26

wt

16.50 g

remarks

1

Smith, J

35

Bandy Catalog
Russell Tree Res. 2 mi NW Lafayette, Contra Costa Co., Calif 1300 ft
23 July 2031-08970 ⁴⁰/FW ⁸⁰/~~TL~~ od.

Bill length 7.40

width 4.90

tail length 50.01*

mid toe 18.54

depth 5.83

wing length 58.31

tarsus 17.00

hallux w/claw 15.56

heads
wax
belly and
back
molt

molt 1st 510's, 5th pin, only, left tail feathers left

fat moderate

wt 21.05

cloac 3.99 x 3.25

remarks

2031-08971 fledgling FW/YL ⁶⁰/YL

Bill length 8.75

width 5.16

Tail length 16.05

mid toe 20.93

molt ^{wing coverts} Tail, belly, molt, back

fat much fat

wt 21.05

depth 5.72

wing length 61.52

tarsus 18.19

hallux w/claw

brood patch

cloac 3.10 x 2.64

remarks

1 August

2031-08974 FW/BK ⁸⁰/BR

Bill length 8.41

width 4.88

tail length 61.04*

mid toe 19.36

depth 5.74

wing length 61.88*

tarsus 18.28

hallux w/claw 14.66

molt last 1st just in sheath, tail, wing coverts, ear coverts, head, back, belly

brood patch no

cloac 2.68 x 2.68

fat slt. fat

wt 21.05

remarks caught in shrub patch said was

Smith 1/8
1989

Birdy Central

36

Sage

5 Aug

FW/~~22~~ RD/X 2031-08969 fledgling of

reared by
FW/OR
FW
BS

Bill length 4.96

depth 3.56

width 3.31

wing length 34.06

tail length $\frac{0.71}{7.29}$

tarsus 17.90

mid toe 20.08

hallux w/claw 12.73

molt $\frac{7.04}{22.24}$, $\frac{8.60}{12.40}$, $\frac{7.74}{13.24}$

fat much gone

wt 17.50 gms

remarks

Young of WH/FW RD/PK ♂'s young

2031-08973 / WH

Bill length 4.58

depth 3.38

width 3.15

wing length 27.46

tail length $\frac{0}{5.26}$

tarsus 18.88

mid toe 14.68

hallux w/claw 12.59

molt $\frac{2.94}{17.32}$, $\frac{4.22}{9.25}$, $\frac{3.92}{7.44}$

fat much gone

wt 14.50 gms

remarks

2031-08976 / WH

Bill length 4.53

depth 3.55

width 3.34

wing length 27.47

tail length 3.87

tarsus 14.83

mid toe 14.93

hallux w/claw 10.84

molt $\frac{0}{14.93}$, $\frac{1.77}{6.97}$

fat much gone

wt 14.00 gms

remarks

Suth, J
1999

Banding Catalog

37

Russell

23 Aug 2031-08977 6R/FW 0R/BK ♀?

Bill length 8.35

Depth 5.44

width 5.08

wing length 56.97

Tail length 62.65

Tarsus 17.53

Middle toe 18.98

hallux w/ claw 13.29

closed

molt head,

wt 20.00

remarks

no fat

J. I. Smith

1988

Journal

Calif: Contra Costa Co.

Sagehen Creek Field Station

and Penny Pines, Nevada Co.

Point Reyes Field Station, Marin Co.

Alameda Co.

New Mexico: Zuni Indian Reservation

with, J

1938

Journal
THE UNIVERSITY OF OKLAHOMA
MUSEUM OF SCIENCE AND HISTORY

1

24 May

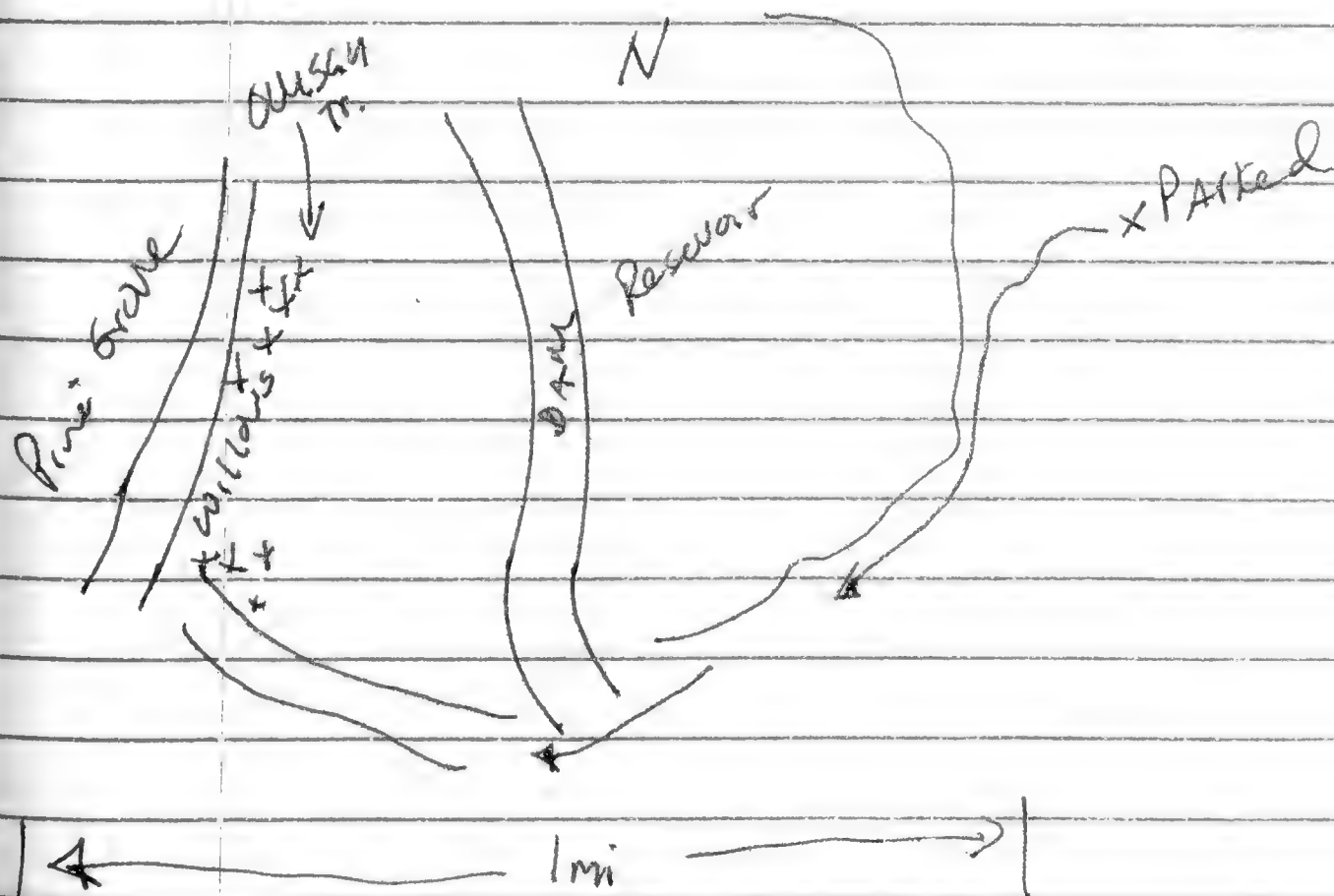
San Pablo Dam, Contra Costa Co., California
8:17 am going out to San Pablo Dam to look
for song sparrow nests

Route: ~~Grizzly Peak Blvd~~ to Wild Cat Canyon
to San Pablo Dam Road.

Weather - Partly Cloudy ~60°F, Breezy
mileage begin - 59858.6 to ...

Route: Continued to Grizzly Peak to El
Toyambre, but El Toyambre is closed 1/2 mile
in. So went Grizzly Peak to South Peak
Dr to Wildcat Canyon to Bear Creek Road
Parked at Bionis Staging Park overlook
to look for sparrows. Vegetation, area is
grasses (1 1/2' high), mustard, - pine trees
planted thickly (less than 1' apart). To the south is
the place I hear purple Finch

9:30 am set out, SW toward Reservoir, pine trees
like the edge and Tulies are thick near the
tail head of the reservoir



note, J
1988

Journal
THE UNIVERSITY OF OKLAHOMA
MUSEUM OF SCIENCE AND HISTORY

2

San Pablo Dam, Contra Costa Co. California

24 May

I walked along the south end of the reservoir
not too much likely song sparrow habitat
Now head N from parking lot
Bachans, French Broom, madrone line to N side
more thickly covered than the S. May gnat (10's)
Went to RS Towkes. Marked Flower
left Jean Creek over the stage ground for Briones
overlook, drove S along Bear Creek Road 42
turned west on unnamed road to Oursan Tr. and
Haupten trail. Many Willows line the draw above
Oak and Pine, mustard and thistles, French Broom
75 yds from the end of the pavement NW on Oursan
Tr. have seen 2 song sparrows. They are in the willows
and tules, Bachans lining the creek on the S side of
the pavement. Downy Woodpecker and RWBB plentiful at 10:50 am.
Saw fledgling song sparrow - yellow lip edges, bright red
gape in unrecognition with calling adult. Heard at least
4 song sparrows singing in 50 yds along the creek.
I ventured out of the creek bank and found a
huge bush of poison oak. Unfortunately, I didn't realize
it until after I had crawled around in it! Found
no nests, back in Oakland at 1:30 pm. Bright
Sunny and breezy ~65°F.

Species List

Pied-billed Grebe	Briones Res.	1
Canada Goose	"	3
California Quail	Oak Woodland	8
Golden Eagle		1
Red-tailed Hawk		1
Anna's Hummingbird		2

with, 8

Journal

THE UNIVERSITY OF OKLAHOMA

MUSEUM OF SCIENCE AND HISTORY

3

1988

San Pablo Dam, Contra Costa Co., California

24 May

Turkey Vulture

2

Downy Woodpecker

2 ad, 1 juv

Black Phoebe

1

Ash-throated Flycatcher

1 sp. acct

Wrentit

HO

Brown Creeper

HO

Cliff Swallow

~50

Chestnut-backed Chickadee

2

Rufous-sided Towhee

1

Purple Finch

HO

House Finch

~50

Brown Towhee

3

Dark-eyed Junco

2

Red-winged Blackbird

20

25 May

Oursan Trail, San Pablo Dam, Contra Costa Co., California

8:53 am, weather overcast, breezy and cool 50°F

Route: Centerville, Grizzly Peak to South Park

Drive to Wildcat Canyon to Bear Creek Road.

Purpose - search for song sparrow nests from 0-4 ft
 up usually associated with weeds and grasses
 or twig fork (Colin Harrison).

Mileage 59897.1 - 59933.4

Walked along the creek running NE at Oursan
 Trail. Saw 5 song sparrows, calling in vegetation
 along the banks. Kicked up a couple away from
 the creek, I presume they were feeding on grass
 seed or on the vetch. Found no nest. Flowed
 through the tules but only found white-wash.
 I think they nest in the willows not in tules.

Smith, J
1933

Journal

4

25 May

Oursan Trail, San Pablo Dam, Contra Costa (Calif.)
but couldn't find any. I - we say to
take ~~San Pablo~~ ^{San Pablo} ~~road~~ ^{road} over to the big
reservoir to see if there are areas along
streams less filled with vegetation, making
nest finding easier. Back in Berkeley
12:30pm, didn't find much along San Pablo
Dam Rd - very public and lots of felling

6 June

Oursan Trail, San Pablo Dam, Contra Costa Co., CALIF

7:54am, weather is overcast and cool. Purpose
is to search in the willows for nests. Pan Williams
thinks the nests are easier to see when looking
up but well hidden from above.
mileage 60112.8 to 60135.5

Appro Route - Grassy Central to Golf Course Road to
E on Shasta to Wildcat to Bear Creek Road ~.7 mile
on Bear Creek to left turn past Horse Ranch to
Oursan Trail. Overcast ~55°F drizzling lightly.

8:57am Raining quite hard came in from the west
Birds very quiet only two singing down near
sand bagged area of coyote brush at E end of creek
Since it is Raining I will drive around and do
some exploring. North down Oursan trail .5 mile
around a bend to the left come up on a prairie
area with coyote brush on N facing slope
The road dead ends .1 mile further over
2nd Rt off of (N or) Oursan Trail dead
ends on E side of gully ~.15 mile.



Smith, J

1988

Journal

5

6 June

Quasar Trail, San Pablo Dam, Contra Costa Co., Calif.

.1 mile S of Bear Creek Ranch there is an entry way of SE side of road w. 4 explore. It runs parallel to what I presume is Bear Creek it is just North (50 yds) of the deep part of the creek. Oaks; Bachman are apparent. 10:35 AM Rain has stopped ~ 30 min ago. Sun is peeping out of clouds intermittently. I walked S along dirt road until I came to a fenced in facility (~ 1/2 mile). I went E around it and got to a Edmund Road which led to a trail 25 ft ^(S) along from S end of facility which led to the creek. I walked along the creek heard ~ 5 or 6 song sparrows. Numerous ~~For~~ RS Towhees (~ 20). There are willows lining the streambank it is very hard going because of this Rosebush-like prickly vine which can have 1/2" diameter. The creek is filthy with trash and debris I walked N along the streambed ~ 50 yds until it got too deep to walk in (1 1/2 - 2'). On the W side of the fork the stream often makes oxbows and I climbed amongst the ivy on the bank and scared up a RS Towhee I thought it might have been nesting but I could not locate a nest. I looked under the ivy in the dry leaf litter but nothing. The Towhee did a few cat calls (Wree). 11:21 In a willow on SW side of dirt road a nest!

Smith, J
1908

Journal

6

6 June



~~Bear Creek Rd. San Pablo Dam~~, Contra Costa Co. Calif
75 yds SW of 2nd gate on the Bear Creek entrance
20 ft up in a willow. Dead grasses at 1.0 m
willow branches lay to outside 24" diameter
flagged on opposite^E side of road near
cement flock. Heard a Black-headed Grosbeak
possibly, heard Song Sparrows in distance
but saw no activity at nest during 20 min obs.
150 yds from Telephone pole 15090 Back in
Berkeley 12:00 pm

7 June

.3 mile NE Bear Creek Road from San Pablo, Contra Costa Co. Calif.

7:24 am, Route (24) to Claremont Ave to College to
Dwightway to Centennial (60145.2 to 60161.6)
to Coff Corner Rd to Shasta to Wildcat Canyon to
Bear Creek.

Overcast ~55°F, ground is very wet from hard
rain yesterday. Chance of rain again today
Climbed up to the nest found yesterday - it is
empty, looks like a start. Only birds very
evident while I was climbing were B. shrike
(15) but it doesn't look like a T. + nest.
too much dead grass not woven tightly.

.7 miles NE Bear Creek Rd from San Pablo, Contra Costa Co., Calif
This is at the head of Oursan Canal, gate is
locked today so I have to walk in. 8:20 am
Sun is shining still rain is threatening. Red-wings
calling "Conchoree" from tule patch just S (Song)

with, J
1989

Journal

7

7 June

7 miles NE on Bear Creek Road from Camino Pablos, Contra Costa Co. CA
from gate. At the NE end of Oursan Draw
found one adult, one juvenile and two unknown
individuals flying low (2') off the ground near
N bank in Tules and willows. Looked like
juvenile was following around an adult. Flying
very noisily. On Hampton trail flagged a nest
(probably last year's) at NE end of Draw.
At Oursan found an abandoned grass nest
deep in the middle of thick Tules. The nest
was ~ 2' off the ground hung down a fork
in a small willow (diameter 2"). Nest
was old and brown but tightly woven with
grasses; approximately 4" across.

7 June

7 miles NE on Bear Creek Road from Camino Pablos, Contra Costa Co., Calif
miles 60196.5 - 60224.9

weather - few clouds ~ 50F 6:30 am. Fair W.
along for assistance in nest searching. Bought
renewed hot coffee. Rattle Bonnet to Oxford
to ~~of~~ Euclid to ^{Central} ~~South~~ Fork to Wildcat Canyon to
Bear Creek. Nest found in Blackberries near
North East end of draw. It is abandoned
it has dead curled up leaves in it. It is
~ 1 foot off ground is made of dried grass
cup 4" diameter about 3" tall. Within
3' of Baccharis and 10' of Poison Oak. 15'
from water.

with, J
1988

Journal

8

9 June

.7 mile NE Bear Creek Rd on Camino Pato Rd, Contra Costa Co., Calif.
♂(?) singing near drain pipe (flayed) holding territory
and wing fluttering with ♀(?). This is just W of area
with Tules where 1st went in. They are on
N bank. Pair suggests mapping out pairs along
the creek. territories will be small b/c of good
cover. After observing for ~ 5 minutes the two individuals
are flushed and a little chasing and both are singing
9:11 60°F no singing along Hampton trail when they
were singing on 7 June in willows along creek
and in Tules. Very sunny now and no singing on SW
side of Oursan Bridge trail. Ch. p note sounds
like "Shweep" pair says sounds wimpy. Heard
in in lightly wooded willows at SE corner of
Oursan Trail w/ wood chips near main gate

5 June 1988

Russell Tree Reservation, ~~near by San Antonio~~
Contra Costa Co. Calif 9:15 am 1300 ft
Route - wildcat canyon to Bear Creek Road
4 mi N on Bear Creek to Happy Valley Rd (3/4 mi E)
just before hairpin turn it is on the left (N).
met Frank Determan (Manager). Showed
me hillside with Baccharis and willows
where Lidicker did study. Have heard song
sparrows, Calif. Quail, Wrentits, RSTowhees
all in hummingbirds. 226 acres. Scrub Jay
TV's. 10:30 am. Have been observing
male singing for ~ 1 hr I am sitting in the
thistles by the side of the road he is calling

old per
for II
254-3778

1

Smith, J

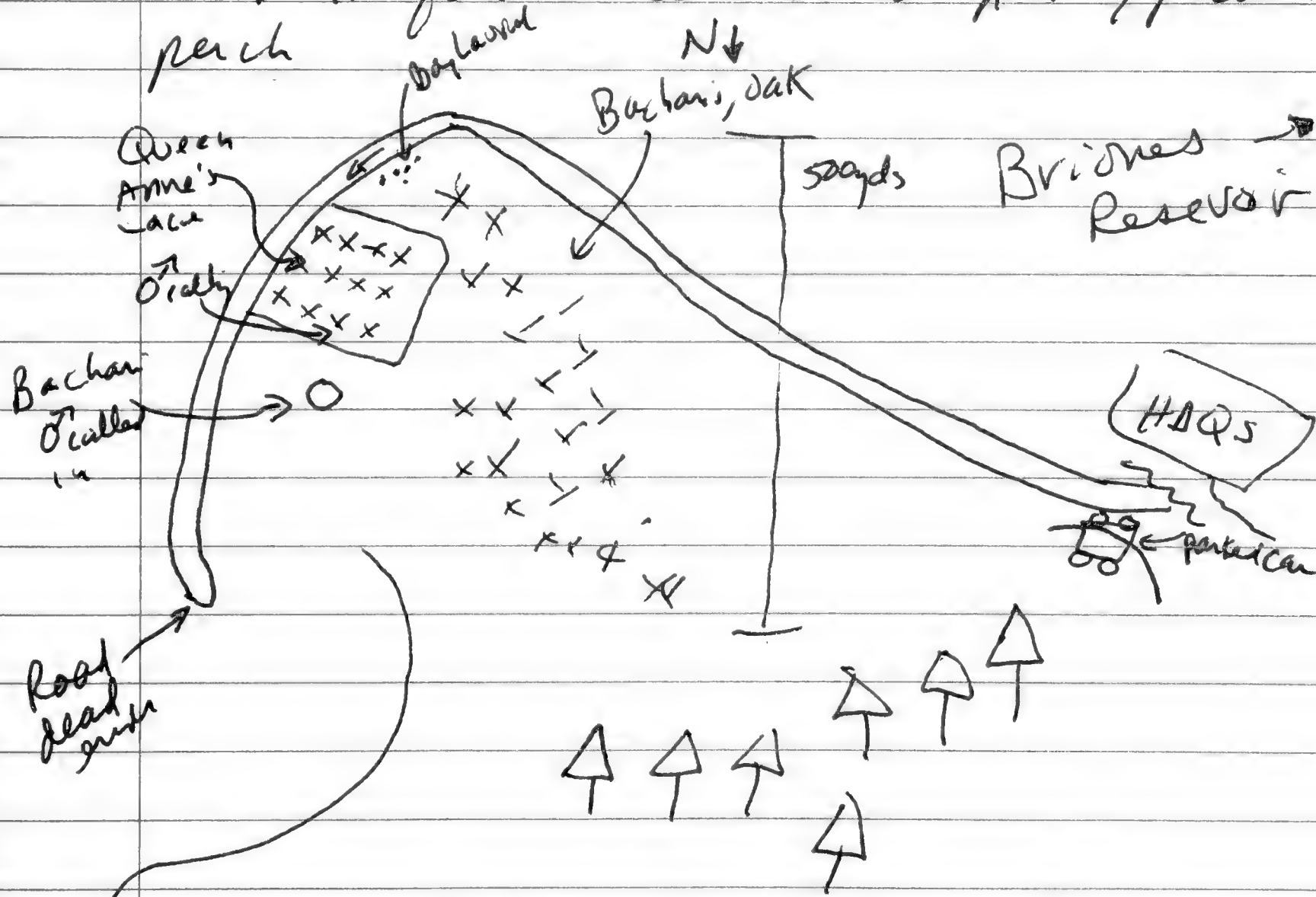
9

Journal

15 June

Russell Tree Periwinkle, Contra Costa Co., CA 1300ft

from the north edge of a $25m^2$ area of what look like Queen Anne's Lace. He is perched $\sim 4\frac{1}{2}'$ off the ground in a dead piece of vegetation. I have been listening for the ♀'s call but no luck. ♂ has made at least 2 distinct call one with 2 intro notes and quite soft quiffy call after and one far more stident and loud w/ 4 intro notes w/ first 2 accelerating into closer spaced later 2. He flew into Bachans 8' north of previous perch.



Another good
canyon for sparrows

with, J
1998

Journal

10

15 June

Russell Tree Reservation, Contra Costa Co., CA
male moved back into Queen Anne's lace
still on N edge of it. He called ~10-15 times
in Bachans and then moved back to lace.
He can add a very loud "Blurrrrrrr" onto the
end of his song. Flew back to Bachans ~5
feet in lace. Second call ~~was~~ started on
higher pitch (~1/3 higher). 10:49 am ♂ has stopped
calling and is out of sight. I have seen 3 Bullock's
orioles fly in the oaks on SW side of Ridge
1 ♂ and 2 ♀ or immars. Saw a Natall's woodpecker
at the observatory and down in canyon where song
Dbs or song sparrow. 10:54 male has song
only 3 intro notes no full song. It seemed like
he was about 10m NW of the Queen Anne's
but have not spotted him. He just gave three
new intro's 10:57. 10:58 ♂ gave clean call
sounds like he is in Queen Anne's again, but can't
see him, ♂ is singing 1 every 10 seconds. These
are typical calls with 3 intro notes, clean
strident but no Blurr on end. 11:00 am
will start climb down to car. ~6 Robins
were in this canyon primarily in Oaks. Lots of
Robin scolding not too much calling. ♂ SS was not
in Queen Anne's lace rather 6' up in Bachans
Bush just N of lace, again. He is sitting on W edge of
Bush on unprotected dead snag. Bay trees at
S end of canyon on ridge near road are fruiting.



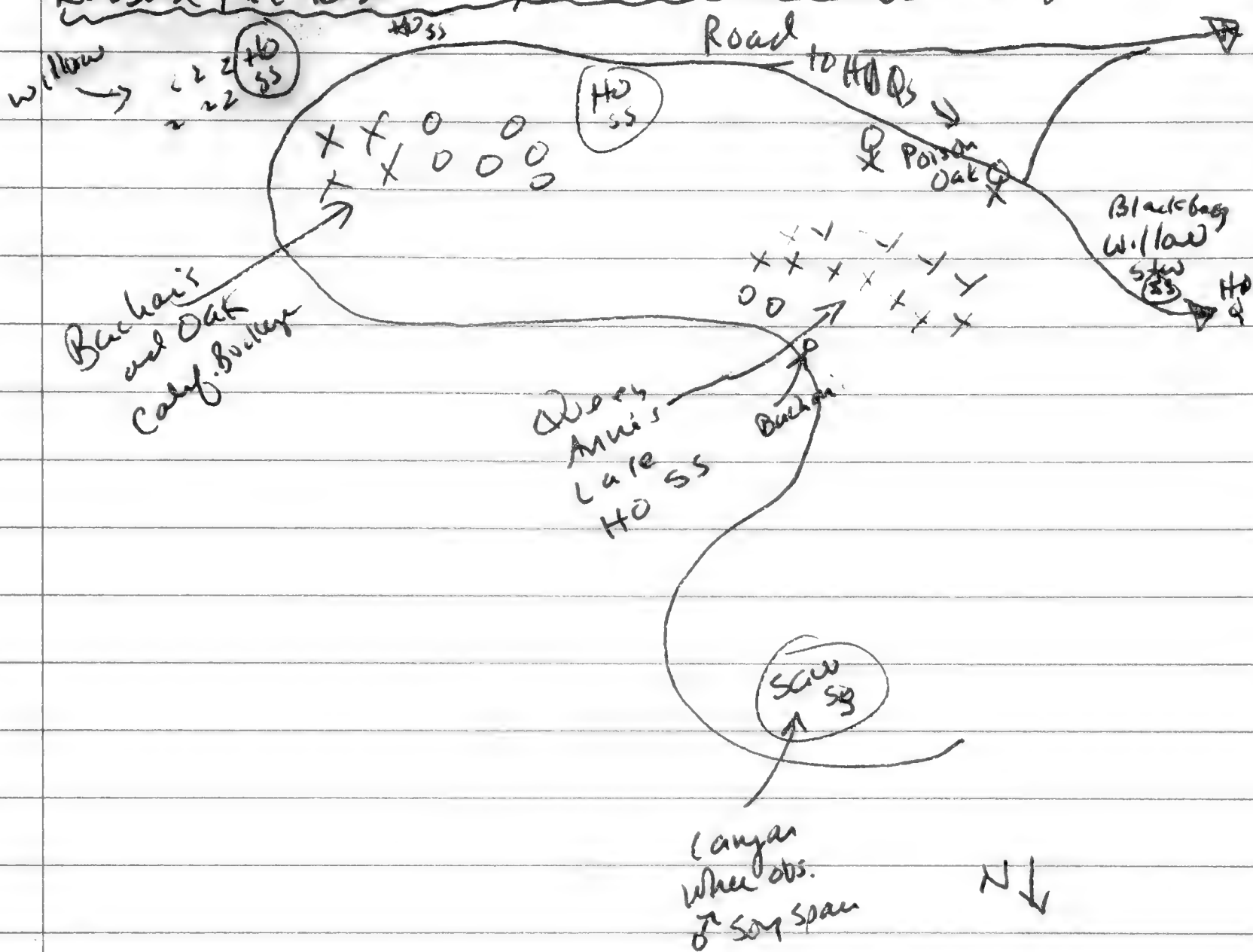
mtg, g

Journal
2 mi NW Lafayette

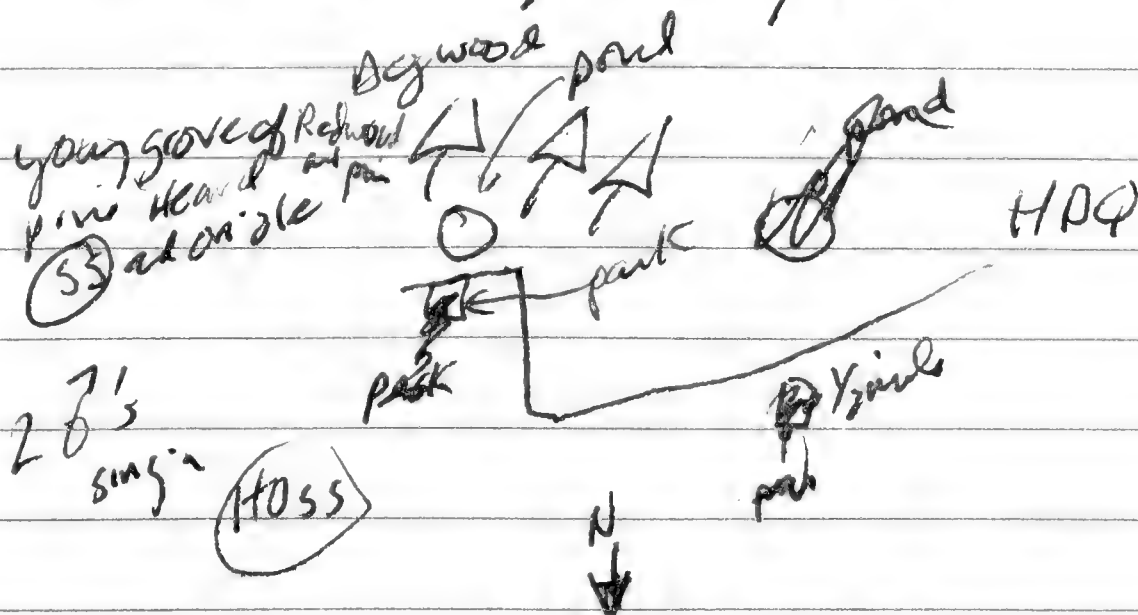
Russell Tree Reservoir, Contra Costa Co., CA 1300ft

11

15 Jan



At the Blackberry patch near the willows seemed to flush up an indiv out of Blackberry.
♂ still called from Willow. Hunted just briefly but no luck and no agitated adults
Oriole sex unknown near cany possibly food.



Smith, J
1938

Journal

12

Russell Tree Reserve, Contra Costa Co., Calif

15 June

Species List

Turkey Vultures	5	3 perched at observatory
California Quail	2	heard 2 flew over ridge ~12 more
Mourning Doves	3	
Aller's Humbird	2	
Nuttall's Woodpecker	2	
Tree Swallow	1	observatory
Scrub Jay	10-20	
Stellar's Jay	5	
Plain Titmouse	1	
Chestnut-backed Chickadee	10's	
Robin	20	
Rufous-s. Red Towhee	10	heard ~20 more
Brown Towhee	3	
Song Sparrow	5	5 heard more
Northern Oriole	7	20 ⁺ at rest unk.
House Finch	2	
Purple Finch	10	

17 June

574 Fairmount Oakland Contra Costa Co. Calif.

11:08 AM overcast, humid ~60°F leave for Saffron

mileage 60390.4 take 88 E toward Tahoe

Then highway 89 N toward Sierra Vista ~8 miles

Just over Sierra Co. live the left before station

garage at crest of hill go 1.8 miles W. ph: 916 -

587-4830 for Thornton

with, J
1438

Journal

3.5 mi NW Hobart Mills

13

17 June

Sagehen Creek field station Sierra Co. Calif 6328
Arrived at sagehen ~3:30 pm car was almost
overleaving as went over Donner Pass. The
station is small and not so spectacular
as Big Creek. It seems far more urban because
everything and everyone are clustered around Joe's
house. It is nice to have shower / Bathroom
and kitchen facilities but really no decent
place to camp. As Jeff predicted there was
a Song Sparrow singing near the creek opposite
from Joe's house. Asked Joe about Penny Pine
area where Jeff camps. He said it is not
allowed, I could get a ticket but he didn't
care where I camped.

17 June

Penny Pine 1.5 mi S (1st right south of station) Nevada
Co. California 6300 ft.

5:00 pm This is an area that was burned
(44,000 acres) in 1960. Some of the pines are over
30-40 feet but just as many are very height. Sage
and a big leafy stunk cabbage like plant cover the
earth. The soil is red and dusty - very dry.
1 mi from entry of Penny Pine I pulled over and had
a snack of bread, milk and cheese. Heard a Song Sparrow
calling infrequently from the creek 100 yds to N.
Warily vireos calling (sounds like "if you catch...
will it squirt ya" he is ~10' up in a pine. Another
is answering about 50 yds to N. Nuthatches probably

1234

1234

1234

1234

with, J
1998

14

Penny Pines, Tahoe Natl Forest (1.5 mi S Squaw field Sta.) Nevada Co. Calif ^{6300ft}

17 Jun

red-breasted in call to the S ~100 yds.

In this bend in the River where Sycamores were spotted ♂ SS popped out of small willow ~10' x 10' foot bush. Heard "Chsip" possibly ♀. Then spotted a junco (?) making a wren-like "Wreen" "Wreen" sound.

Flagged the willow w/ Chartreuse on its S side. 10m NE from that willow is another overhanging the creek. Near its base overhanging the creek was a garter snake in what could be the entrance to a nest. I found much white wash and 2 downy feathers w/ 1' of the snake. Heard 2 indivs call from that bush as well. NO ♂ call just "Chsip" and "Wreen" calls.

6:21 SS have been quiet since I left the bush w/ the snake while I was searching thru that bush I heard a ♂ call and a lot of chipping. 60 yds W of last flag heard another ♂ singing, no sign of fledglings near Beaver dam where I saw a Beaver swimming in it of water his head was partially under and tail completely back was visible above H₂O ~2 1/2' from head to tail tip. Heard high strident scree before I saw the beaver, don't know what made the noise. 7:16 pm much more singing than there was at 4:00 pm. I've tagged no other poss. nest area this one is 25 m from open gate down Penny

uth, J.
1998

Journal

15

Pine Penning, Tahoe Natl Forest, 1.5 mi S of Sagehen Field Sta. Nevada Co. CA ^{6300ft}

17 June

pm dinner. Saw 7 indiv foraging and with food in mouth ~ 10m from the road in a pine^(8') surrounded by willow. This indiv would fly to ground or dead stump and flit tail then fly into willows out of sight ~ 1' from dead stump. Heard pass begging calls at this time. Also graces are slung around a fork in a willow another 10m toward stream won't investigate but want to disturb indivs this late. Retraeger of tracks I discovered I drove down the Penny Pine road toward Sagehen creek 2 miles

8:49 had dinner in the dining hall met Donna (SKing, long brown hair) and Britt (Plumb, graces, long brown hair). Both are nice and Donna was helpful. Told me about Paul and his family studying Mountain Beavers.

Have been hearing an ascending hooting - poss. W. Screech Owl? SS still singing Owl(?) call is accelerating short hoots. I'm camping in the Volleyball court on the E end of camp and in the meadow. The owl's hoots sound a lot like Mado wings flapping as they come into roost.

Species List

California Quail 6

Willow Sagehen 1♂, 1♀ 1 chick sp. acc

Red-shafted Flicker 3 sex unk.



5/1



with, J
1988

Journal

16

Sagehen Creek Field station (8mi N of junction Hwy 89 & 30)

17 June

Sierra Co. Calif

Red-breasted Nuthatch

HO 26

Wentley Vireo

6 pines

American Robin

25 very dark red

Western Tanager

20⁺ Yuck (For sure)

Yellow Warbler

20?

Song Sparrow

10

Dark-eyed Junco

~10

Beaver

1

Deer

1

18 June

Sagehen Creek Field Station, Sierra Co., Calif. 6328 ft.

6:28 am cross over the creek at the House over the River

~100 yds of Dining commons. Traveled W along the creek

500 yds. Seen 3 pairs of Song Sparrow in willows

with 10m from creek. Found a destroyed nest

~5' up in the fork of a willow tree. It had grass

mixed up woven in with a red bark. ~ 2-3" across.

and 3" deep. The squirrels here are grey, small

(1 1/2' head to tail) with prominent ears. They have white

stripes near lips going toward the eye. They make a

loud chattering call like a woodpecker but to fast.

9:38 am I found a Song Sparrow nest! My

first, Ah! It's not a complete failure.

The nest had 2 young, fat well-developed

maybe 3 days old. Puff feathers not erupted.

The egg was warm with a dark spot about a cm

with J
1984

Journal

17

Sagehen Creek Field Station, Sierra Co., California 6328 ft

19 June

in diameter. I had come upon what I believe is the male about 1 hr ago. He was chipping on a fallen log across the stream. I noticed he had an insect in his bill so I decided to seek the corner of a small pine and observe him. Shortly thereafter I noticed another SS come out of a willow thicket about 7m long and 3m wide. Both of these sparrows were flycatching over the creek. At one pt I observed the ♂(?) rub the wings off of what could have been a dragon fly by rubbing his bill against a dead log. The nest was found by watching the adults carry food to this willow clump. They were pretty sneaky. But it just came down to the fact that none of them not they would fly out of the willow and the flycatcher they would however spend a great deal of time chipping while they held food in their mouth. They would chip back and forth. Wilson's Warbler would fly into the willow and seemingly not be deterred by the sparrows. The nest was situated in a low fork (~1') of a willow that was 6' tall. The branches of the fork were 2" in diameter. The nest was surrounded by long dead grass (1') presumably as camouflage. As I approached this willow & kept the ♀(?) flew off when I was ~3' from nest

with, J

1988

18

8 June

Sagehen Creek Field station, Sierra Co., California⁶⁵⁰⁸
because of this behavior I knew I was close.
and I poked around and sure enough there
it was! ~~The nest~~ One of the nestlings raised
its head as I poked aside some of the
branches to get at the nest. They did not
make any begging sound. The parents chirped
the whole time I was in the vicinity.
I flipped the nest, and it is my intention to
collect these young ~~very~~ way back to camp.
as Ned suggested I can in this way
stimulate re-nesting and also get tissue for
elects. The nest was within 2' of the creek
on the South side. I didn't stay to measure
trip because I felt I had disturbed the family
enough. Tonight after I collect them I will
do more ~~thorough~~ thorough inventory. 11:38 am
birds are very quiet I walked to the W gate
of the Sagehen station following the creek. After
I found the sparrow nest moments later I found
a Robin nest with 4 young close to fledging.
The nest was in a small pine (16' tall)
it ^{the nest} was about 4 feet off the ground. Made of
grasses and mud. Nestlings feathers were about
fully emerged. It has warmed up considerably
~65°F very sunny, no clouds. 5:52 pm
found a nest of a Mountain Chickadee in a hollow
pine tree hole is ~7' (up nest)

W, J
1938

19

Sagehen Creek Field Station, Sierra Co., California 6328 ft

10 June

6:41 pm observed 2 adults feeding a fledgling wren in the grass. They would always set off for the fledgling from the same willow bush which was clumped up grass. The area where the presumed fledgling was hiding was in tall grass (1-1 1/2') and 6' from willow.

8:03 pm dinner of forest, chicken and Calatagan. A very long day; feels good to have found some sparrows. The area W of the W gate of the Station has numerous willow clumped sparrows but it is far too populated by people to offer good area for nest manipulation. Concentration in Penny Pine and near the station will be best.

Species List

William Sapsucker	50♂ 2♀
Red-breasted Sapsucker	1♂
Northern Flicker	20♂
Hairy Woodpecker	2♂
Anna's Hummingbird	2♂ 1♀
Dusky Flycatcher?	1? → Townsend's Solitaire?
Hammond's Flycatcher (?)	2
Western Flycatcher	1
Mountain Chickadee	2 sp. acct
Red-breasted Nuthatch	40 3
American Robin	25
American Jay	1 ad 1 juv

with, J
1988

Journal

20

Sagehen Creek Field Station, Sierra Co., California ^{6328 ft}

8 June

Warble Vireo	20	
Yellow Warbler	10	
Wilson's Warbler	+ 50	
Yellow-rumped Warbler	2 ♂	
Song Sparrow	30	
Dark-eyed Junco	30	
Winter Wren	1 ♂	2 (juv or ♀)
Cassin's Finch	1 ♂	

Deer

1

Penny Pine 2 mi W of entrance which is 1.5 mi S of
Sagehen Creek Field Station, Nevada Co., California ^{6300 ft}

19 June

7:00 AM went to West gate on Penny Pine road to Sagehen Creek 3 song sparrows in vicinity will try to get some recordings.

7:58 I just discovered that this SS pair is feeding a fledgling crowbird, without its tail it is still bigger than its parents! Spotted a mammal looking like ~~or~~ a woodchuck but with 4" tail and golden fur like a marmot.

9:37 AM ♀ song sparrow observed feeding a fledgling with a half grown tail, wing appeared fully feathered. Head had one downy feather sticking out but otherwise well-feathered. The fledgling was hunted down in some 12" grass then ♀ would fly to w/in 5' and would call "Bleep" and next it would

Smith, J

1930

21

19 June

Penny Pine, 1.5 mi S of Safford Station, Nevada Co., Calif. ^{6300ft}
responded with a more lispy call. When ♀
spotted me she gave a "sip or chsip." ♀
would hop around ~~about~~ on a fallen log 1'
off the ground away from us both and the two would
call back and forth. A male flew into a
picket 15m to the W of the fledgling and sang.
Fledgling would call periodically even if ♀
was not nearby. 10:18 Found another pair
feeding a fledgling. Same behavior of parent coming
into ~5' radius of young giving "bleeey" call with
~~the~~ fledgling responding, much more softly.
Found a nest 6" off the ground in the ~~for~~ bare
fork of a willow. The willow is 2 1/2' high.
It is part of a long strip of willows along the SE
end of the creek. The strip is 15m long and 2m
wide. I flagged the E most part and also
flagged the tallest branch of the willow clump where
the nest is in addition I flagged the willow
bush just NW of the nest. To find the nest go
into the middle of the clump where there is a bare
area and look E look at the ~~the~~ base of the flagged
willow on the E aster edge. It is hard to view from
east because other concealed from top than
most, Hard to say how far down the creek
but perhaps 1/2 mile ^W from gate. As I approached
the nest tree I saw something moving away like the
I had done at the other nest perhaps this ♀ is about

with J
1938

Journal

22

9 June

Penny Plain, 1.5 mi S Sagehen Creek Field station, Nevada ^{6300ft} to lay. Nest was 15' from water's edge. 11:16
500 yds west of nest I ran into E edge of
the field station. Plots of tagged plants are
50 yds beyond ^W that. The meadow where I
set my tent. Area past that tent west 250 yds
E of the meadow not too much willow
lots of pined as Outhouse-like structure.
I figure with the sparrows at Penny Plain and the
Judd station area I'll have plenty of sparrows!
Can drive car .4 mile W past gate where
parked car there is a 6' stretch of barbed
wire 6 ft 2 trees. The creek is near
and the nest is w/in 150 yds W of that area.
Or 2.5 miles ^W from main entrance to Penny Plain

Species List

Hairy Woodpecker	1 ♂ 1 unk sp. - acct
Northern Flicker	2 unk
Red-breasted Nuthatch	HO 3
Brewer's Blackbird	1 ♂ 1 ♀
Brown-headed Cowbird	3 ♀ 6 ♂
Mountain Chickadee	2
Wilson's Warbler	15 ♂ 2 ♀
American Robin	25
Song Sparrow	25
American Osprey	1 juv



with, J

1989

Journal

2 mi NW Lafayette

23

Russell Tree Reservoir, Contra Costa Co., California 1300ft

June

6:48 am overcast ~55°F Route: 580 to 24
to San Pablo San Rd to Bear Creek to Happy Valley
mileage 60811.9

9:51 am No feeding of fledglings or nestlings. Some individuals have been quite vocal but no "chipping" or "Blereeping". The orioles, towhees and robins are all truly fledglings. All the H. birds I think are nesting. I saw one well feathered bird of the year it was associating with another indiv I believe was the adult. These individuals were in the willow near the huge Hackberry patch on the W side of the road 250 yds from where I park in pine grove. Individual that I watched on 15 June is not calling in or around the area of the what I thought was Queen Anne's lace but is really Poison Hemlock! Walked down along the W edge of the Hemlock patch in the Buchan's heard a "Chsip" and a fledgling responded with "Blereep" from the hemlock. I think the hemlock provides great cover for fledglings but I don't believe the parents nest there.

with, J

1988

10 mi S of Olema

24

Point Reyes Bird Observatory, Marin Co., California

23 June

9:33 am, bright and clear warming ~60°F.
route SBO w over San Rafael Bridge. Central
San Rafael exit. 3rd street go left take it
out of town bear right at San Francisco
take to Dead end into Highway 1. Go S on
1 ~15 minutes ^{9 miles}, immediately out of forest see Bolinas
lagoon go to Right / ^{Olema Bolinas Rd.} dead end go left then
1/2 mile take Mesa Rd to Right for 4 miles West
ph. 868-0655

Geoffrey R. Geipel learn about their
program. Song Sparrows will be fully
grown wings and wt 15 days after fledging.
Fat assessed by yellow or fulcrum. SKOVS
by looking for windows under light. If tail
not fully emerged then still probably feeding nestlings.

or 1 mi W Hobart Mills 5840 ft

28 June

Prosser Creek 3.3 mi S of Sycamore Creek Field station Nevada
7:24 pm Collecting with Jeff Groth. Heavy route ^{Co. Calif.}
with 22 auxillary band have to get incredibly
close. Make incision from base of sternum to vent
do not go thru vent. Push skin back, try not to enter
body wall. Skin back on both sides as far as you can
Wait as long as possible to use saw dust because view is
obscured. Work to get legs out, Disarticulate tibiotarsus
from femur and then fix it to ~~the~~ skeleton. Cut connective tissue
mand joint; don't worry about petala. Skin down to heel cut
thru connective tissue do not cut bone. Now go to release

with 10
1988

Journal

or 1 mi with 25

Nevada Co. Calif.

Prosser Creek 3.3 mi S of Sager Creek Field Station.

5840 ft.

28 June

tail. Cut thru pygostyle. Do not ~~pull~~
cut thru humerus pull it out and cut at
radius and ulna. Now go to head gently work out
ears. Release skin from eyes cut thru transparent
membrane. Take skin down to base of bill. Flip tongue
out, cut thru jaw. Clean muscle out of arms and tail
leave some but not a lot of muscle around tail

29 June

Sager Creek Field Station, Sierra Co., Calif.

We awoke at 4:50 am (late). The alarm
did not go off. In breakfast had toasted
rice cakes and jam with Peet's Arabian
Mocha (mocha...) 5:42 On the S side of
the dining commons where Red crossbills
caged on top of Jeff's brother's truck, wild
Red crossbills coming in and land on truck
singing and calling. ♂'s and ♀'s Jeff thinks it
is a breeding aggregation of his type 2

Song sparrows and Am. Robins calling near creek.

Walking along a steep N bank of Prosser
creek S of the station a couple miles
I flushed a Townsend's Solitaire. It was
sitting on 4 eggs. The nest was under the
edge of a foundation on the ground. Woven
with grasses about 4" wide. The eggs were
bigger than sparrow eggs but similar color and
pattern. Grey blue with rust flecks. I picked

old nest

with, J

1988

Journal

26
1 mi W Hobart Mills
~~6000~~ 5840 ft
Nevada Co., CA

Prosser Creek 3.3 mi S of Saxe Field station, Nevada Co., CA

29 June

one of the eggs and crushed it, blood drop formed at the crack. Found many SS but discovered you have to get quite close to get the shot. Within 5'! I got one sparrow this morning out of 7 shots! It works well to leave tape player out in grass and seek cover next to a preferred perch and wait for the right moment. Found an SS nest in small bush ~3' high (not willow leaves too large (fat)). Nest was at base of bush no more than 3" off ground about 3 1/2" across worn with dead grass. ♂ was disturbed by playback and would call in response. While I was hunting the ♂ I flushed the female and lo! there were 2 very young chicks (~1 or 2 dgs; no feathers except a wee bit of fluff on their heads) I collected the ♂ but not the ♀. Nest was ~2' from row of willows that were 3' from the N edge of Prosser Creek. Sandy-rocky substrate nest pretty well hidden from above. Earlier today (before noon) heard ♂ give an incomplete call probably signifying he is frustrated breeding for the reason. The birds were quite responsive to playback in afternoon possibly even more than in early AM.

3.3 mi
Saxt. est.

Sta, J

1988

Journal

27

6100ft

Alder Creek 4 mi W of Hobart Mills, Nevada Co, Calif

2 July

9:50 am Jeff and I drove S from station past
Proner Creek to Alder Creek Rd. Went
west on Alder Creek Road for 3 mi until
dirt turn off to Rt with bent street sign
indicating Alder Creek then we drove NW about
1 mi and hunted along the creek. Not too many
sparrows. Too much alder not enough
willow plenty of Fox Sparrows. Jeff shot
a male and female SS. Just right I checked
the nest I found in Pinyon Pines, it was still
empty (that nest was found 17 June). Heard
individual give "sip sip" as I stood in willow
thicket so maybe they re-nested elsewhere
after I found them on the 19th. I collected
the nest

29 July

Sagehen Creek Field Station Sierra Co. California 6328ft

4:27 pm arrived at station 3:40 left Berkeley
about 11:30 am. Took Chris' car lent
Nina & Wang so she could go car shopping.
Chris and I drove S on I-80 until South
Tahoe exit stopped at Safeway for some
Canned Beef, $\frac{1}{2}$ - $\frac{1}{2}$ and Mahi-Mahi.
Donna invited us to a Barbecue and
wiffle ball game tonight. It is a hot
day (~85°F) with large cumulus
clouds. Chris and I will walk S
along Sagehen from our tent site on W end

mtl, J
1989

Journal

28

6328th

29 July

Sagehen Creek Field Station, Sevier Co., California
of meadow. This will stay as into the
Pinyon Pines. The purpose of the trip is to
see what stage the Sage Sparrow nesting
cycle is in. There is a Wilson's Warbler
"sipping" at us in the willows just back
the west end of the meadow. Donna and
Joe are almost finished with the new cabin
SE of Dining Hall. I decided to stay in
meadow over tent-frame cabin because it
was so cold at night when I was here with
Jeff. Chris bought this enormous red air-mattress
I'll see how it works. Found a nest in
crotch of a willow ~ 4 1/2' off ground it is
empty ~ 25' from S side of Sagehen Creek
nest dimensions 3 1/2" x 3" x 2 1/2". 5:16 pm
things are very quiet. We walked S along
Sagehen nearby the willows have seen 2 ♂'s(?)
who chirped at us and then vanished no
calling or young ones seen or heard. 2 dark-eyed
juncos are chipping in the ~~tree~~ pine tree looks like
one is following another. 6:02 100 yds E on
Sagehen was watching a suspected juv calling
"bleeep" for ~ 3 min an adult flew into a pine tree
abt 3' off ground 7' S of juvenile it flew to
same branch as juvenile and fed it then hopped up to
higher branch. Chris says there is 3rd indio
not as puffy as juv perhaps 2nd adult they are all

th, 8
1289

Journal

29

29 July

Sagehen Creek Field Sta. Sierra Co. California 6329ft
Three sitting in same tree on 3 diff branches
about 10" apart each branch. low < 3' off
ground in Pine tree (Ponderosa?), No calling
only chirping was heard and feeding from
juveniles.

30 July

Penny Pine 1.5 mi. S of Sagehen Creek Field station Nevada Co, Calif ^{6300ft.}

set up 3 30m nets 9:22am caught
an individual which I will band and measure
it is ~ 65°F sunny with lots of white clouds.

- FWS Band # 1431-14501 on left leg (1B.f.t weel)

Bill length 10mm (measurements made with plastic ruler)

Bill depth 6.5 mm

Wing length 64 mm

Tail length 64 mm, very worn feathers mainly just shaft

Tarsus 20 mm

Middle toe 17 mm

Molt ~~some~~ ^{heavy} back molt, tail very worn

Broad Patch yes

sex prob female

age adult?

Fat ran away

She beat her head against the wires it was feather
bare and blood.

- End of 143-1401

Have seen dark-eyed juncos, Hermit warblers (26), orange-
crowned warblers, Mountain chickadees, Red-shafted ^{sp. Acet.}

Th, J
1930

Journal

30

Perry Pines, 1.5 mi S of Sawyer Creek Field Sta. Nevada Co. Calif. ^{6300ft}

30 July

flocks. Have heard no SS calling only "sippy"
It rained a little bit this morning about
5:15 am. We got up 6:13 only heard jays calling
no Robins which is in sharp contrast to the
morning chorus 3 weeks ago when the Robins
would wake me up at 5:15 am like clockwork.
Saw 1 dipper this morning it rattled and flew
S down to stream. Belted Kingfisher flew over
very hi (500 yds) it called as it flew over
the creek flying north.

FWS Band # 1431-14502 left leg (1B)

Bill length - 9 mm

Bill depth - 7 mm

Wing length - 65 mm

tail length - 67 mm - moderately worn

tarsus - 18 mm

middle toe - 17 mm

molt - no

brood patch - yes

sex - female

age

fat - no

Smith, J

1988

Journal

31

Penny Pine 1.5 mi S of Sayce Creek field station, Nevada Co. Calif 6300 ft

30 July

FWS Band # 1431-14503 (1B)

Bill length - 9 mm yellow lips

Bill depth 6.5 mm

wing length 62 mm

tail length 66 mm

tarsus 20 mm

middle toe 18 mm

molt - right side #4 about halfway in

brood patch - yes

other side complete

sex - female

age - juvenile

fat - none

Strange yellow protuberance (~~3 mm~~) from
uropigial gland (3 mm long 2 mm wide)

All three so far caught in same net
plus one ^{mountain} chickadee.

Smith, J

1988

Journal

32

~~Penny Pine, 1.5 mi S of Sawyer Field Station, 6355 ft. Nevada Co. Calif.~~

30 July

FWS Band # 1431-14504 (1B)

Bill length 8.5 mm

Bill depth 6 mm

Wing length 63 mm

tail length - 1 tail feather ~~note~~ 54 mm

tarsus + 20 mm

middle toe - 18 mm

molt - all over, secondary coverts half emerged

brood patch - no

tail feathers 1 cm

sex - hard to say

age - juvenile - yellow lips

fat - some fat

protuberance from uropigial gland
(2.5 mm x 1.5 mm)

October

~~Pt. Reyes Bird Observatory, 10 mi S of Olema Marin Co. California~~

Route - San Rafael Bridge to N 101, Lucas Valley Rd
to Nicosia then Highway 1 south to Bolinas Lagoon.

8:22 am ~55° Clear skies with light fog.

Drove out to PRBO to take blood samples for DNA
fingerprinting.

ith, J

1988

Journal

33

57 Fairmount Ave., Oakland, ~~Calif.~~ Alameda Co. Calif

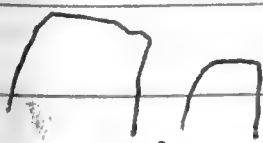
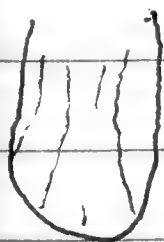
14 December weather: clear skies, light wind ~ 55-60°C
purpose: Driving to Zuni Indian Reservation
New Mexico for Christmas Bird Count.
John Trochet is traveling with me. We
will meet Bernie, Sue and Carla C.
on Friday in Zuni.

Time 3:00pm left at 3:51pm

Route 580 E to I-5 to 205-I toward
Hayward and Stockton then to E-120 to Montecito
and Sonoma, then 99-5 to Fresno then to
Bakersfield 53 + Bakersfield and I-405 after that

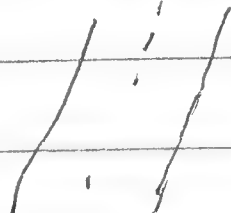
15 Dec 5-666 to E 61 (or New Mexico 63) to Zuni
on south side of road ^(E 61) large park (~20)
Mountain Bluebirds. Northern ~~owls~~ very
common along road side with distinct wedge
tail. Saw one rarer mostly left remige.

Approx 10 min E on 61 see Zuni Buttes in the
distance. Homes many Zuni shrines, and religious
offerings. 15-20 Indian House Finch flocks
along the roadside, very pale sandy brown



Buttes

3-4 miles off
in distance to
E.



← retreats
in Mesas
for Navahoes
and Zuni's
dwell on
top from 1600's

with, J
1988

Journal

34

Zuni Indian Reservation, McKinley Co., New Mexico

15 Dec

stone monuments on S mesa are the son and daughter of Zuni chief who were sacrificed by walking into the water on the top of the mesa. As they walked in the water receded.

Power line marks state boundary.

Vegetation is juniper primarily and sage with some piñon. Reservation is $1,000 \text{ mi}^2$

This represents Zuni homeland, they and Hopi were not removed from tribal lands.

Soil is very red, reminiscent of Oklahoma in Black Mesa Country. We looked for pronghorn when we turned S off I-40 on 666-S but none.

John says pale rump should be visible in the clearings over when traveling 55 mph. Ferruginous Hawk distinct white tail band with ferruginous red.

Under wing coverts speckled Black all over lot just patagial as in RT, held wings in a dihedral long tapered wings not rounded like RT.

White-tailed prairie dog mounds.

In the riparian parcel that is my responsibility we saw numerous Song Sparrows along the banks of the impoundments in dead grass cover as well as in dry stream beds lined with willows and cattails.

They were giving the "Simp" call note.

On SW corner of my plot found tall trees (~Oak) near to budding. These trees had

~30 Pine Siskin with fewer American Goldfish

with, J
1988

Journal

Zuni Indian Reservation, McKinley Co. New Mexico ³⁵

15 December

sitting at the very tip-top. They were perched close together (21' apart) and would fly off in flocks together giving a "unweep" call.

~~birds~~

Species List

Pontail (30) at dam

Bufflehead (50)

Green-winged Teal (~40)

Pied-billed Grebe (2)

Lesser Grebe (2)

Golden Eagle (1 imm) sp. acct.

Ferruginous Hawk (1) sewage ponds

Prairie Falcon (1f)(1u)

Amer. Coot (100's)

Bald Eagle (2) at dam

Red-headed Ducks (100)

Ring-necked
duck
sewage ponds

15 Dec

standing 100's

Pink-bellied Grebe

Ferruginous Hawk (1)

Raven's

Prairie Falcon (2)

Bufflehead

Lesser Grebe

Amer. Coot

Pied-billed

Grebe

Golden Eagle

Ferruginous Hawk

Prairie Falcon

Bald Eagle

Red-headed Duck

Amer. Coot

Pied-billed Grebe

Ring-necked Duck

WCS



Smith, J
1934

Journal

6400ft.

36

Zuni Indian Reservation, McKinley Co. New Mexico

16 Decemb Awoke 6:40 am Breakfast of Hens and Peet's Bantamda. Al and E.J. Charles Place is ~10 miles N of Zuni toward Gallup. Two children Ronald and Lee and a new one expected soon.

First stop this AM ~ 8:00 am was for Sage Sparrows (Sage flats along Rio Pescado) a drainage area actually outside of church, no luck try again later. 2nd stop was canyon below the dam had juniper and much sage. Smelled wonderful. Weather was crisp (~20-30°F) light wind from East but upper atmosphere blowing to East from West. Canyon is basalt rock with cattail marsh at the bottom we heard and saw many rock dwelling sparrows, wrens and juncos. Tall cottonwoods line the edge of marsh with also many Russian Olive (~15'). South on old 36 (Reservation 8) to pie mesa. Past canyon 11:00 am Ran into Al S. coming up out of the Mellon canyon he had seen a yellow-bellied Sapsucker & N. Shrike. We walked back down the canyon with him to see if we could see the Sapsucker. The canyon was sandstone with Gray Fir. Many snake and possum ant hatches. Heard solitaire (sp. acct.) and saw it too.

th, 9
1928

West Branch
Main of Testina

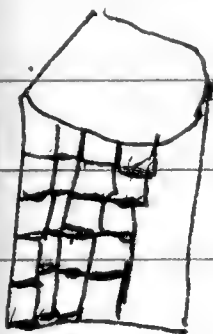
6400ft

37

Zuni Indian Reservations, McKinley Co. New Mexico

December

We ate lunch 1:30pm at top of canyon after the steep climb back up. We left Al before making it all the way down to his car. I made a turkey pastami, sprouts, havarti cheese with gey poyon mustard sandwich. John and I shared lunch so also had turkey with swiss cheese in Pita bread. Carrot sticks, and grapefruit juice too. After lunch we headed to the SE corner of which a high sandy plateau of Pinyon and Juniper. With aligator juniper bark looks like aligator skin. This area was very quiet, hardly any sounds unless John "pished" or did a pygmy owl call. Then we would attract numerous (20-30) pygmy nuthatches a few white-breasted (2-3) and numerous juncos (50). Also picked up a willow warbler in a tall sage for it was 10' below the top on the main trunk (sp. acct). We then drove to get back to town and spotted a Northern Shrike sitting in the top of an 8-10' juniper (sp. acct).



aligator bark

Testina

J. I. Smith

1989

Journal

Calif: Russell, Tree Farm, Contra Costa Co.

Guerneville, Sonoma Co.

Big Creek Reserve, Monterey Co.

Santa Cruz Island, Santa Barbara Co.

Sagehen Creek Field Station, Nevada Co.

Arizona: Pima, Cochise, and Yuma Cos.

Calif: Imperial Co.

with, J
1989

Journal

2 mi NW Lafayette

Russell Tree Farm / Contra Costa Co. Calif. 1300 ft

4 Feb

8:45 am, T = 40°F, skies clear. Frost on grass. Sun shining.

Purpose - out to check up on Song Sparrow breeding progress.

Found 6 TV's sunning themselves in large trees near where car is parked. They had their backs to the sun with wings outstretched. One other TV separated ~200 yds to SW sitting on fence post also opened wing when the larger group did!

I have heard no Song Sparrow singing. The Golden-crowns are feeding in large flocks (~15 indivs) always near a brush pile. Two Red-tails are calling "he-rah"! Found one Song Sparrow by peeking at the Mulberry Bush. It did a few "Chimps" and then went about preening and hopping in leaf litter.

To the WSA along trail (on top of W ridge) from mulberry tree about 200 yds. I heard a "Chimp" and saw a possible one. They seem to be in

with, J
1989

Journal

2 mi NW Lafayette

39

4 Feb

Russell Tree Farm, Contra Costa Co., Calif. 1300 ft
in the Baccharis along the W side of
hill. Also saw 2 flickers and 2
scrub jays sitting on fence posts lining
the top of the ridge. The wind has
picked up from the SW ~ 10-20 mph

Along the ridge to the NW is a grove
of live oak. Descending to the E from
that ridge is a gully lined with
Baccharis ~ 50 yds long to the N side of
trail at the ESE tip is tall Baccharis.
Saw two song sparrows and gave "sing"
call, mixed with several Golden-crowned
sparrows.

Along E ridge 40 yds E of water hole
saw and heard song sparrows in Baccharis ~ 2 ft
off the ground near (< 4') from trail on N
side of road. Another answered "Chirp"
call off 100 yds to NE. 40 yds to N
along the road found a song sparrow not
calling but hopping in sunspot over ground
(16") in a dead patch of poison hemlock. It
hid in fallen branches, while could hear
the one still calling from the last spot.

On the way back to the car from E end of

with J
1939

2 mi NW Lafayette

48

~~37~~

4 Feb

~~Russell Tree Farm~~ Contra Costa Co. Calif. 1300 ft
of canyon. Saw Song Sparrow singing
itself in a Beech on N side of road
~ 10 feet from trail. This spot is along
S end of trail 20 yds W of where the road
turns N to the Waterhole Ridge. Sharp-shinned
flew by to the SW to W ridge out of sight.
The pond just SW of party area has
a pile of wood on S end, saw and heard
a Song Sparrow singing on that wood pile
and one was calling well to the SW.

I drove E along paved road until
I could go no more. Then was that machine
"Bleeting" when I parked. I walked 50 yds
E along muddy road into Redwood
grove. Saw Hermit Thrush and ~ 5 Fox
Sparrows, numerous juncos and Brown Towhees
but no Song Sparrow.

10 Feb

8:34 AM very foggy ~ 100 yds visibility
cold ~ 45°. It was sunny in Berkeley
but clouded back here. Came out to
try some netting. 9:16 am still dense
fog blankets the area. I have set
2 nets: one at the mulberry bush
on the S side near the road. The
other at the N bench corner 75 yds

with, J
1989

Journal

2 mi NW Lafayette

41

~~Russell Tree Farm~~ Contra Costa Co., Calif. 1300 ft.

10 Feb

E of the W ridge with the live oaks.
3rd week I saw Song Sparrows in
that corner. This morning I "pished" at
the Mulberry bush and I saw 2 Song Sparrows
pop out of the the dead hemlock on
the SW border ~ 10 yds N of road.
Yesterday, Tom Smith lent me ~ 6 nets, one
brand new and 5 tried and true. I am
using my 2 aluminum pole nets for the
first time so far so good. It was then
very quiet, only birds heard were
Scrub jays and Rufous-sided Towhees.
Saw a large flock of Golden-crowned Sparrows
in dead hemlock ~ 60 yds S on Road from
Mulberry bush. There must have been at
least 20 individuals in ~ 3 m² hemlock.
They flushed from the ground onto the bushes
when I got ~ 15 yds from them. Red-tail
called "Hee RATH" from the conifer grove
where I park my car. Robin is also
singing in the same area. There is ice
in the cement slab near the N edge of Mulberry
bush. 9:41 am at N most end of live oak
ridge TV is sitting on a fence post ~ 5 feet
off ground. Its head is quite red but dark
around eyes and bill is white. Two flickers
one ♀ other a also on ridge calling. White-breasted

Smith, J
1989

Journal
2 mi NW Lafayette

42

Russell Lee Farm, Contra Costa Co., California 1300 ft

10 Feb

nutcracker heard calling to the E. Sun is shining thru the fog now but it is still quite thick. Sitomus calling from Bay Laurel on W side of ridge. Flock of juncos (~10) feeding in live oaks on W side of ridge. Flickers wings are making loud flapping or "whooshing" as they beat. Fog is clearing off slightly & I can now see the lower road (leading to parking area) from the ridge. Heard a hummer fly by. I also think I've been hearing the gurgling of a California Thrasher. The birds are becoming more vocal now at 9:46 AM.

11:26 AM caught ~10 Golden-crowned Sparrows at Malberg Bush when I ran to net N-S over old well. Sun has burnt off fog except for around hilltops. Hermit Thrush seen foraging underneath Malberg bush. All the Golden-crowns popped yellow-green.

Geeneville, Sonoma Co., California

Route: 101-N out of San Francisco (~2 hr drive)

4 miles N of Santa Rosa go W on River Rd for ~15 miles. In Geeneville there is a stop sign go thru it, then 1~~st~~ BLK go left and see River Lane Cabins on SW corner.

Smith, J
1989

Journal

43

Yreaville, Sonoma Co., Calif. 200ft

10 Feb

Riverlane Resort, A16 and Wallie Bass

707-869-2323, P.O. Box 313, 1st

and Church, Yreaville, CA. \$50/night.

Cabin with Queen bed, couch, Kitchen, small
mini bed, wood burning stove, deck, grill
refrig and kitchen stuff. We needed to
bring paper towels. Bed had water in it.

TV was color. No hot water in shower, and no
maid service. We ate Lamb Cassoulet, California
greens, fugu and Blueberry nectar.

11 Feb

9:30 AM very cloudy (foggy) in the morning.

Ravens were calling near the river. 2 Fishermen
fishing. Acorn Woodpecker tapping in tree next
to cabin. We ate Texas Carrot-Bean mix for

breakfast. I had Peet's 101 Blend with
cream. Stove was gas and works well. We

bought cozy logs and paper towels at the
safeway 1 blk west on 1st street. After
breakfast we drove 2 mi N on Armstrong
Wood Road to Armstrong Redwoods State Reserve.

We walked into Redwoods for ~1 hr,
saw flickers, varied Thrush, Townsend's Warbler,
Nuthatch, Acorn Woodpecker.

Oil light was staying on, checked it but
level is high. After walky in the Redwoods
we drove into the park. Waits (\$3/car) it
went up in elevation and we got into Lone Oak

Th, J
1989

Journal

44

Jennville, 2 mi. N of Huntington Redwoods, Sonoma Co., Calif.
11 Feb rolling hills. The habitat was very disturbed, lots of lichen on the oaks, everything seemed to be dying. Saw Cooper's Hawk come screaming thru a clearing with ~6 varied thrush all "topping". Didn't see hawk take anything. Rain clouds came up so we went back to cabin. I took a very cold shower, we rested and read and ate lunch, Chris made chicken, avocado and tomato on fufu - very good. ~5:00 pm we drove W on 116 toward Jenner. at intersection of 116 and Hwy 1 we went S on ① to Goat Rock state beach. Very windy beautiful walk along sand bar. Lots of Hunter seals, they breed March so looked like they were getting ready to Welp. ~6:30 pm sun down, we drove back to Jenner North on ① to Restaurant: Jenner By the Sea right at S edge of town. I had Seafood Supreme white wine sauce, prawns and scallops \$16.00, white wine, salad and for desert we had swiss chocolate pie. Chocolate cookie custard and chocolate Mousse - good. Meal pretty average. Chris recommended Blue Ham in Sancerre Malls on 116 just W of Jennville.

with, J
1939

Journal

45

Georgetown, Sonoma Co. California

12 Feb

We drove W on 116 to Highway 1, drove N on (1) to Fort Ross. A ~~the~~ Russian fort the furthest S outpost of Russian Empire in N. Amer. They hunted sea otters for furs. ~pm we returned to Gea then drove E on 116 to Monte Rio where we went S on Bohemian Hwy. to Occidental ~ 6 miles. We ate lunch at Union Hotel, very Italian family style. I had Chuck Caciatore go. Also got bread, antipasto, salad, soup and raviolis! After lunch continued S on Bohemian Hwy to Valley Ford freestone Rd then to Hwy (1) south to San Francis Drake. Stopped in Fairfax at Julie's apartment. Just before town limit of San Anselmo. Julie not home continued on San Francis Drake to Hwy 101 S to Golden Gate. Oil light kept coming on when accelerator not put down. Returned to Ches ~ 6pm.

25 Feb

Russell Tree Reservations, near NW Lafayette Contra Costa Co. CA.

9:00am Weather was sunny and very warm ~ 50-55°, but in past 1/2 hour it has become quite threatening to the south and is now overcast. The SS pair near the Mocking Bush would not respond to playback of song sparrow. But in a Bush pile ~ 75 yds S (over the road) there is an individual chimney. I have played playback

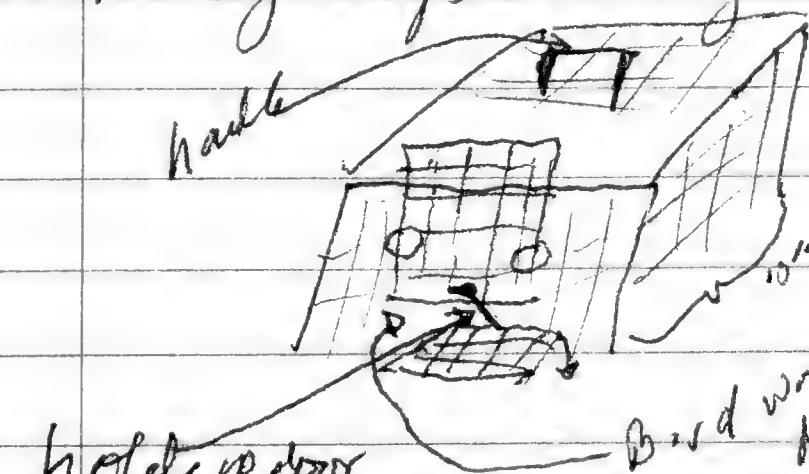
Ph, J

1989

Journal

46

25 Feb Barrell Tree Remnant, 2 mi NW Lafayette, Calaveras Co, Calif 13074
 but it doesn't stay "chirping" thought I
 may have heard a higher pitch give a response
 from S to SW. Black Phoebe was giving a
 "Peck" call repeatedly from that old tool shed
 like they just W of nesting patch. The hillside
 a green with a thick mat of grass ~8" tall.
 Even the road is green and muddy from
 the tool shed on. The wind was increased
 15-20 mph. 15 minutes later the individual is
 no longer in sight and has stopped chirping and
 will not respond to tape at all. It is raining lightly
 now and I have returned to the car and the
 cover of the pines. There is blue sky to one
 side of my peaks clouds to the other. We need
 the rain so badly it is hard not to welcome
 it despite the fact that it is interrupting field work.
 The wind gives me holding "Yak-Yak" but
 nothing else is calling. The car needs a new
 wiper! Boy does it sound tough coming up over
 the hills. Yesterday Bob Jones gave me some
 Bailey traps to try out. He said we could make
 more for \$3.



holds up door
until bird walks on platform.

Bird waves on the hill and rolls
door that is supported above
it.

ith, J

1989

Journal

47

Lucasville Res. 2 mi NW Lafayette, Contra Costa Co., Calif. 13000'

25 Feb

I want to OK putting out bird seed with with Frank (Determan) before I go for a trial run. Yesterday, I spoke with Mary Ann Fox from the animal use corner. She was very nice and just needed some clarification of a few minor points. When I heard that she had called I got very nervous, thought there might be a big "Hoo-Hah" about the application. She said it would be reviewed in March. I heard a frog calling from the drainage ditch by the road, the "Dug-RRR" very raspy. The Scrub jays are imitating Red-tails. When I first got to the Matthey Bush this morning I thought I heard a song sp. calling from that bush pile S of the bush it was giving almost a full song but sounded like it could have been a Fox Sparrow, but then I did see the song sp. in exact same area later. Chipping.

Species List

- | | |
|-----------------------------|-----------------|
| Juncy Vulture 6 | Amer Robin 1 |
| Acorn Woodpecker HO | Scrub J 2, HO |
| Northern Flicker 1 | Stellar's Jy HO |
| Mourning Dove HO, 6 Flyg | |
| Black Phoebe 1 | |
| Wren Tit HO | |
| Chestnut-backed Chocader HO | |
| Red breasted Nuthatch HO | |

from leaves at
our rain increased
very much and got
very wet and from
acorn 9 mulling.

2, 8
1989

Journal

48

Russell Inc Farm, 2 mi NW Lafayette, Contra Costa Co. Calif 94590

is list
of visitors to
1-tailed leafy
Horned Lark
Killer's song
Scrub Jay
Titmouse
Brown Creeper
Golden-crowned
song sparrow

4 March Out at Russell to set up some feeding stations. Put Sapsy Cardinal Chow (1.39 5 lbs) at wood pile near fenced in pond. Also at mulberry bush set up pile at the bath tub and near well spring. At this spot I heard a full male call followed immediately with no break a female gurgling. Then there were some "chirps" this was at 7:00 a.m. The weather is overcast and sprinkly. I have heard 2 other Song Sparrow full male calls up the hill ~150 yds. One sounded like it came from that area of W ridge I tried to net at earlier. Raining hard now, almost like sleet. I have taken refuge in the back of the static wagon (9:37 am).

5 Mar 7:30 am take 22 minutes to get from home to Russell, I re-stocked the feeding stations with Chick Feed from Lucky Pet, near the cellars (b/t Arlston and ?) on University W side of road. SS are calling heard chirping from mulberry S side. 7 TV's soaring in very overcast, slight drizzle wind from NW ~10-15 mph. ♂ in mulberry just called 7:49, thought I heard ♀ gurgle from N in return.

with 1/2

1939

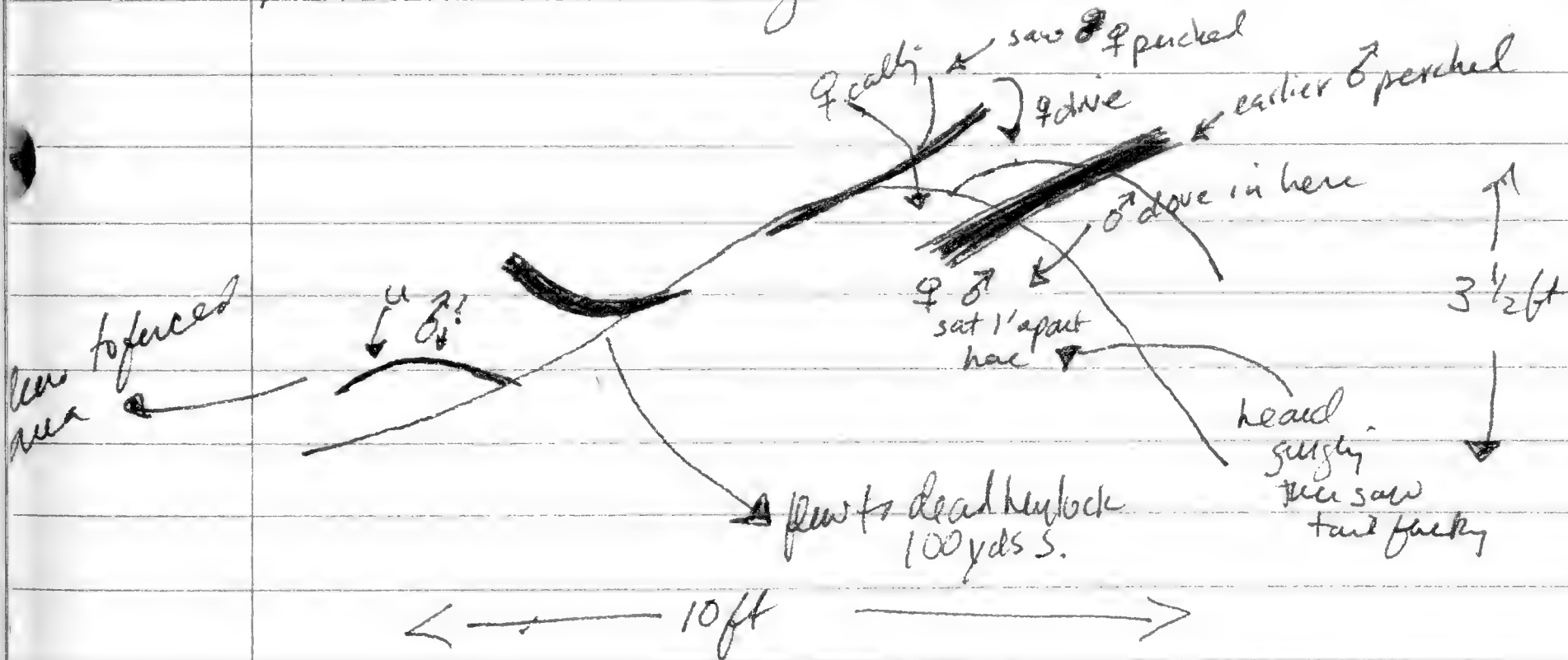
Journal

49

Russell Tru Reservation, 2 mi. NW Lafayette, Contra Costa Co. Calif. 13 Oct

9 am

Watching a pair 7:52 on E side of road just where gravel ends there is a brush pile. ♂ gave full call and female came out of pile gurgling. 7:53 winds have picked up 15-20 mph storm is threatening. I hear cally from W side. Lots of female vocalizations today. ♂ cally from 1st feeding station by pond. It looked like it had been eaten from so far to the E side moulting station but not N.



75 yds NE of talk hut where I'm situated

It seems today that I will hear a ♂ as the ♀ will gurgle in response. From moulting I have heard strange to, slow calls and partial of "week week WRATH". Golden-crowns (4) landed on W edge no response from SS. About 9:41 a large flock of white-crowns (~10) individuals flew into the brush pile, I haven't heard or seen an

with, J

1939

Journal

50

Russell Tree Preservation, 2 mi NW Lafayette 1300 ft. Contra Costa Co. Calif

9 Mar

Song sparrows since. The sun has poked out from 6 ft layer clouds to the west. Wind is still strong; but clouds are breaking up. Clouds thick now 10:12. I put out seed up on E trail in that patch of hemlock. As I was walking thru the middle valley w to nutbay brush I scared up song sparrows from the dead hemlock. It was the same area I had seen that 3 fly into earlier in the AM.

Species list

Turkey Vulture 6

Red-tail 10

Flicker 3

Rufous-sided Towhee 10

Brown Towhee 2

White-crowned 15

Golden-crowned 4

SS 12

Black Phoebe 1

Robin 15

Stellar's 1

Scrub Jay 2

Electric Fence

WB: BK
FW: BK

N

GR: YL
FW: BL

FW: OR
GR: BL

Cattail pond

28 man



OR: BL
FW: RD

BK: PK
FW: YL

BK: GR
FW: OR



100 yds



GR: YL
FW: BL

GR: OR
FW: BK

GR: RD
FW: OR



BI: RD
FW: GR

YL: BK
FW: PK

28 man
Barbas

oil killed
YL: OR
FW: FW

Red
FW: BK

FW: Red

PK: BK
FW: BK

* - Bush
XX - Crush
XX - Ham

th, 9
1939

Journal

51

Russell Tree Reservation, 2 mi NW Lafayette 1300 ft., Contra Costa Co
Calif.

Mar

Banded ♂ at wood pile 75 yds north E
of mulberry tree he is $\frac{\text{FWS}}{\text{red}} : \frac{\text{white}}{\text{pink}}$. Female
would not go in net. Set out feed and saw
both indivs feeding from SE pile. Also banded
possible pair just north of mulberry patch in
dead hemlock. Both came into net right
after I had used the tape player. I think
canary birds are too large I will try
Zebra finch. There 2 indivs were banded

$\frac{\text{Green}}{\text{FWS}} : \frac{\text{yel}}{\text{Blue}} \text{ ad. } \frac{\text{Orange}}{\text{FWS}} \frac{\text{OR}}{\text{BK}}$

$\frac{\text{BK}}{\text{FWS}} : \frac{\text{GR}}{\text{OR}}$ caught at Pond brush pile in baited trap

4 Mar

Very sunny clear; frost on the ground.

Set out baited traps ~ 6:45 am, I caught
1431-14505 (IB) $\frac{\text{FWS}}{\text{red}} : \frac{\text{WH}}{\text{PK}}$ at the brush pile

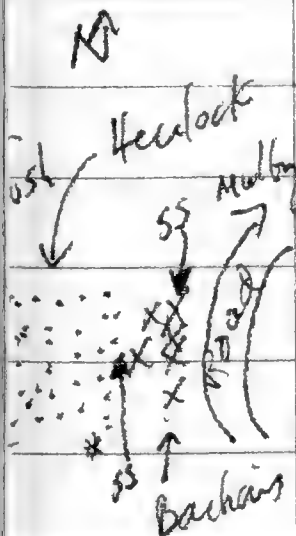
At 7:40 with a Golden-crowned juv on the
other side. At 8:13 am caught 2031-8904

$\frac{\text{B}}{\text{FWS}} : \frac{\text{R}}{\text{gr}}$ at Mulberry bush head mate (?)

calling (contact chirps while I was banding
this indiv. Have sea trying to net indiv in Bachais
clump 75 yds SW of mulberry. It is calling but

flew over net. Saw a Green banded indiv in hemlock
patch just N of mulberry ~ 8:30 am, it was
calling. 9:46 am banded 2031-8905 ♀? $\frac{\text{Red}}{\text{FWS}} : \frac{\text{YL}}{\text{OR}}$

She flew off to hemlock patch of $\frac{\text{GR}}{\text{FWS}}$ and
then she landed in the sparrows from the patch sang.



with, J
1989

Journal

52

Russell Forks, 2 mi NW Lafayette, Contra Costa Co., Calif 1300 ft

14 Mar saw $\frac{GR}{FWS} : \frac{OR}{BK}$ singing in live oak ~ 10' off ground on N side of mulberry just to the S of the hemlock patch where I caught him. The bare patch on his head was visible from ~ 20 yds.

17 Mar Out to Russell by 6:40 AM, sunny, light cloud cover, no wind. Have nets set up at sight S of mulberry and in Hemlock in central valley. Both ♂'s are calling, also heard chirping as I was setting out nets. Saw a $\frac{GR}{FWS}$ indiv feeding at bait on N side of mulberry it was with a ♀ Golden-crowned. Watching both indivs ($\frac{RD}{FWS}$) at brush pile. Am looking for nesting behavior. One indiv is more ♂ ($\frac{FW}{RD}$?) than the other but both are seen sitting on top of brush pile. Could it be that indivs that are molting tail feathers now were last year birds? Lots of white-crowned > 6 on wood pile with $\frac{FW}{RD}$ s.

$\frac{GR}{FW} : \frac{WH}{OR}$ was killed in mist net with its mate by a Cooper's Hawk! AHH I'm so mad I saw the hawk fly away as I came over the hill to check the net.

with J
1939

Journal

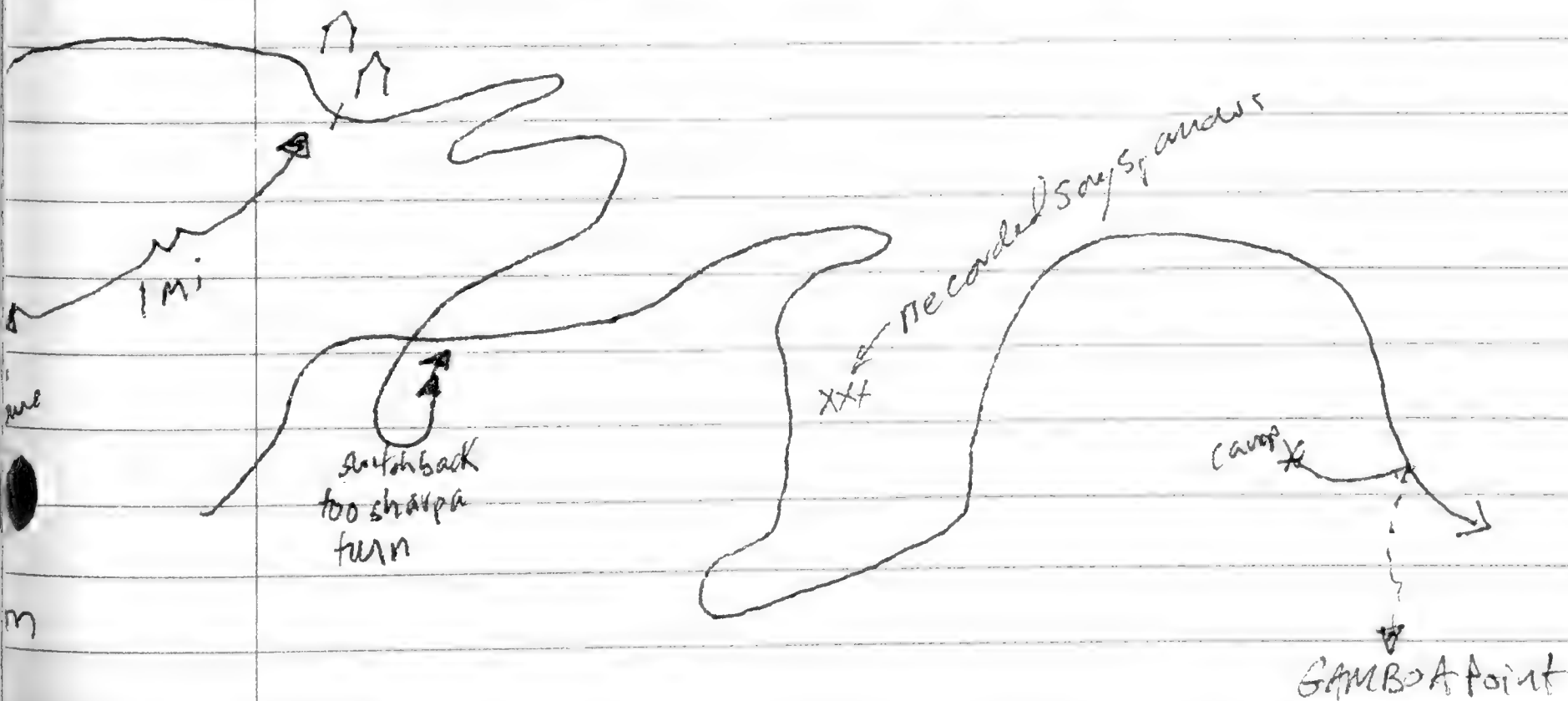
53

Big Creek Reserve, 20 mi S Big Sur, Monterey Co., Calif 400ft

19 Mar We started from Oakland yesterday at 1:00pm
We headed 930 to 280 at San Lorenzo but
major traffic jam sat there for 1 hr moving
bump to bump there was no sign of an accident
just lots of traffic. Once we got out of San Jose
on 101 traffic lightened up we then went on
156 at Watsonville which becomes highway
1 at Seaside. We traveled S along 1 20 miles
from Big Sur to UC Big Creek Reserve.

if you get to
Lucia
you are
6 miles
S of station

It is 5 miles S of Esalon Institute just on
S end of 3rd Bridge from Esalon. John
Smiley is Reserve manager (408-667-2543)
lock comb is 87-88. John said road was
clear to the Ridge campsite so at 6pm Chris
and I started the climb up to the camp we drove
the Volare, it got hot but made it w/o incident.
To get to ridge camp:



Smith, J

Journal

54

1935

Big Creek Reserve, 20 mi S of San Francisco, Monterey Co, Calif

19 Mar

We had camp set by 7pm we ate Salami sandwiches, not great but filling. The Gumbo

we had hoped to have was still frozen solid.

Went to bed at 9:00pm. The night was overcast

but moonlight was brilliant enough for a stroll

to Gamba pt. I awoke this morning at 6:21am

to the sound of juncos and house wrenches.

I fixed a breakfast of Soy. wheat Baby Mix

Broccuti (2 cups mix, 2 TBS oil, 3/4 cup H₂O). ate then with

Wildflower honey from Long foods, Mokka Java,

margarine and half-half. Mmm! delicious.

Fried broccuti in vegetable pan w/ 1 TBS margarine

worked very well.

Whole Wheat Mix

1 cup whole wheat flour

1 cup white flour

1 cup soy flour

1 cup wheat germ

1 cup Baby Powder

1 cup salt

1 cup dry milk

1 cup sugar

1/4 cup Brewer's yeast

Extra Mix

1 cup whole wheat flour

1/2 cup Rye ^{flour} 1/2 cup Cornmeal

1 cup soy flour

1 TBS brown sugar

1 TBS Baby Powder

1/2 cup each salt & soda

We ate lunch at the Best Western in

Calmaria, actually Best Western is N

of Town on sea side. I had a big

burger and fries, this a BLT. It was

typical restaurant fare, we got out of

there for \$14 incl tip. I recorded song

sparrows as we descended from the ridge

at Big Creek it was ~ 11:15 AM there were

~ 6 birds 3 on N side of road 3 on south

They were small red back. They were in

bracken fern, Tan bark oak and lots of Poison

Oak, (dark red leaves), also live oak, redwood

and Monterey pine. We left Big Creek at 12:45pm

The Santa Cruz Island Project



St. J

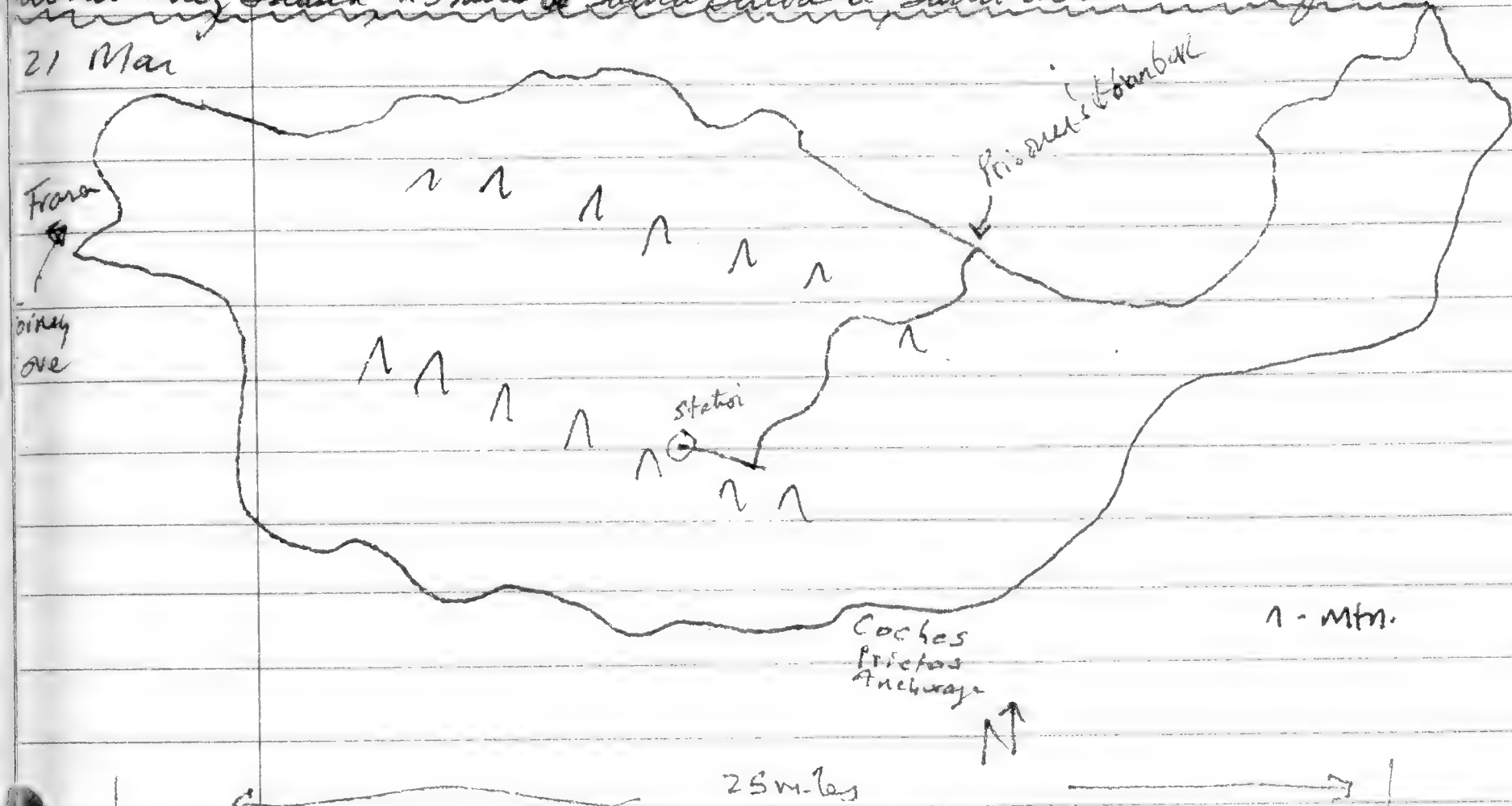
Journal

55

1989

Santa Cruz Island 25 miles W Santa Barbara Santa Barbara Co. California

21 Mar



SS: 961-3764
for island
real sciences dist.
me Calif
N.V. of Barb
into 93106

Yesterday we arrived on the island at 11:30 AM. It was a 1 1/2 hour ride from Port Hueneme which was 4 miles S of McGrath State Beach on Ventura Blvd. We took Pleasant Valley Road W onto the Bark. Where we went to security office. We needed Driver's License, designation and proof of insurance. We loaded up the boat and headed out at 9:00 AM. Saw Western Gulls, a tern (flocks), Brown Pelican, Flock (~10) White Gulls in the Harbor, I thought I saw a Skua on the way out. No mammals. Lendel met us at the gate ^{at Prison's Harbor} and drove us 2 miles to the station. There is a large Kitchen with dining area, surrounded by trees is a screened in porch with Benet beds, ping pong table and couch. There is a popcorn air blower. After a lunch

White-crowned
w (white loons)
in Coches in
Barbais

Santa Cruz Island

Rising majestically 23 miles off the Santa Barbara coast in California, wild and rugged Santa Cruz Island is a sanctuary in time. Its size, isolation from the mainland, biological diversity, and rich history combine to make the 96 square mile island a unique and very important part of California's heritage.

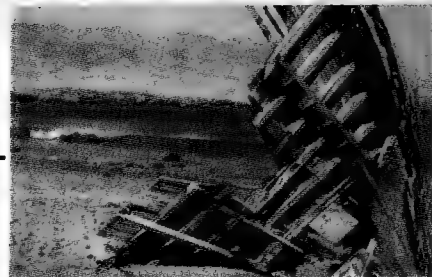
The largest and most topographically diverse of the eight Channel Islands, Santa Cruz stretches approximately 24 miles in length, is from two to seven miles wide, and encompasses 62,000 acres of land. Here are found examples of metamorphic, igneous, and sedimentary rock, major earthquake faults, Indian middens, fresh-water streams, creeks, and springs, and biotic communities that range from grassland to riparian woodland to coastal beaches and dunes. With its pristine coastline, two mountain ranges rising to 2,400 feet and 1,500 feet, pastoral central valley, and endemic plants and animals, Santa Cruz Island resembles a miniature continent.

The island supports a remarkable flora and fauna. Over 600 species of plants are found on the island in ten different plant communities. About 40 plant species are restricted to the Channel Islands, and eight of these occur only on Santa Cruz. Notable examples of these island endemic plants include the Santa Cruz Island Ironwood and the Island Oak. Over 130 species of land birds have been identified on the island. The Santa Cruz Island Scrub Jay is representative of island endemism, being larger and bluer than its mainland counterpart. Of the 13 species of terrestrial mammals on Santa Cruz, the Island Fox is a well-known endemic animal characterized by its small size, daytime foraging habits and docile nature. Hundreds of seals and sea lions find refuge in the island's protected coves. The 77 miles of shoreline cliffs, beaches, offshore rocks and tidepools provide an important breeding habitat for colonies of nesting sea birds and support a wide variety of crustaceans, mollusks, and other shoreline animals and plants.

Removed from extensive human impact by its location and conscientious private ownership, Santa Cruz Island – with its unique assemblage of landforms, habitats, and plant and animal life – stands as a living example of primeval America.



History



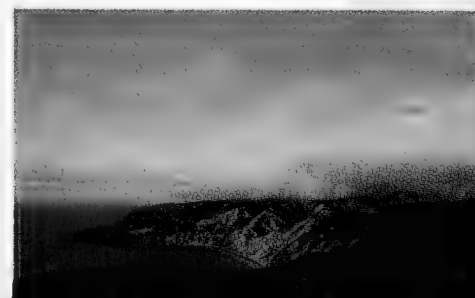
Prehistoric occupancy of Santa Cruz Island is dated before 5500 BC, and estimates of the Chumash Indian population on the island at the time explorer Juan Rodriguez Cabrillo “recorded” it in 1542 range from 2,000 to 3,000. Among the estimated 3,000 archaeological sites is the former principal island settlement of the Chumash.

In 1839, 25 years after the last of the Chumash Indians were removed to missions, the island was granted to Andres Castillero by the Governor of California. In 1857, Castillero sold the island to an Englishman, William E. Barron, who in 1869 sold to a group of San Francisco businessmen who formed the Santa Cruz Island Company. In 1880 Justinian Caire became the principal owner and established a colony of mostly French and Italian immigrants on the island. This early ranching operation produced, among other things, walnuts, olives, cattle, sheep, honey, almonds and some of the finest early California wines under the Santa Cruz Island label.

In 1937, Edwin L. Stanton of Los Angeles acquired the western nine-tenths of the island and concentrated on cattle ranching. In 1957, Edwin's son, Dr. Carey Stanton, returned to Santa Cruz Island to take on the task of managing the ranch. Along with Ranch Manager Henry Duffield, Dr. Stanton continues to run a “functioning nineteenth century cattle ranch.”

In 1975, Dr. Stanton approached The Nature Conservancy about a possible joint conservation effort to ensure preservation of the island. Through a generous arrangement with Dr. Stanton and an outpouring of public support, The Nature Conservancy was able to acquire an interest in the Santa Cruz Island Company property by 1978.

Today, a conservation partnership exists between The Nature Conservancy and the Santa Cruz Island Company. Included within the boundaries of the new Channel Islands National Park, the Santa Cruz Island Project of The Nature Conservancy will provide for continued protection, research, and educational use of this privately-owned land.



Management

Proper management of the Santa Cruz Island's biological and historical treasures requires the use of careful stewardship practices based on sound scientific research. The Conservancy's Santa Cruz Island Preserve Management Plan calls for continued emphasis upon research and assessment of various plant and animal species and communities, geological formations, and archaeological sites. In cooperation with Dr. Carey Stanton and the existing University of California Natural Land and Water Reserve Research facilities, a program of directed research and restoration continues.

Educational programs specifically related to Santa Cruz Island will continue both on and off the island. A film and slide program are available for use by interested groups, and lectures by project staff may be arranged.

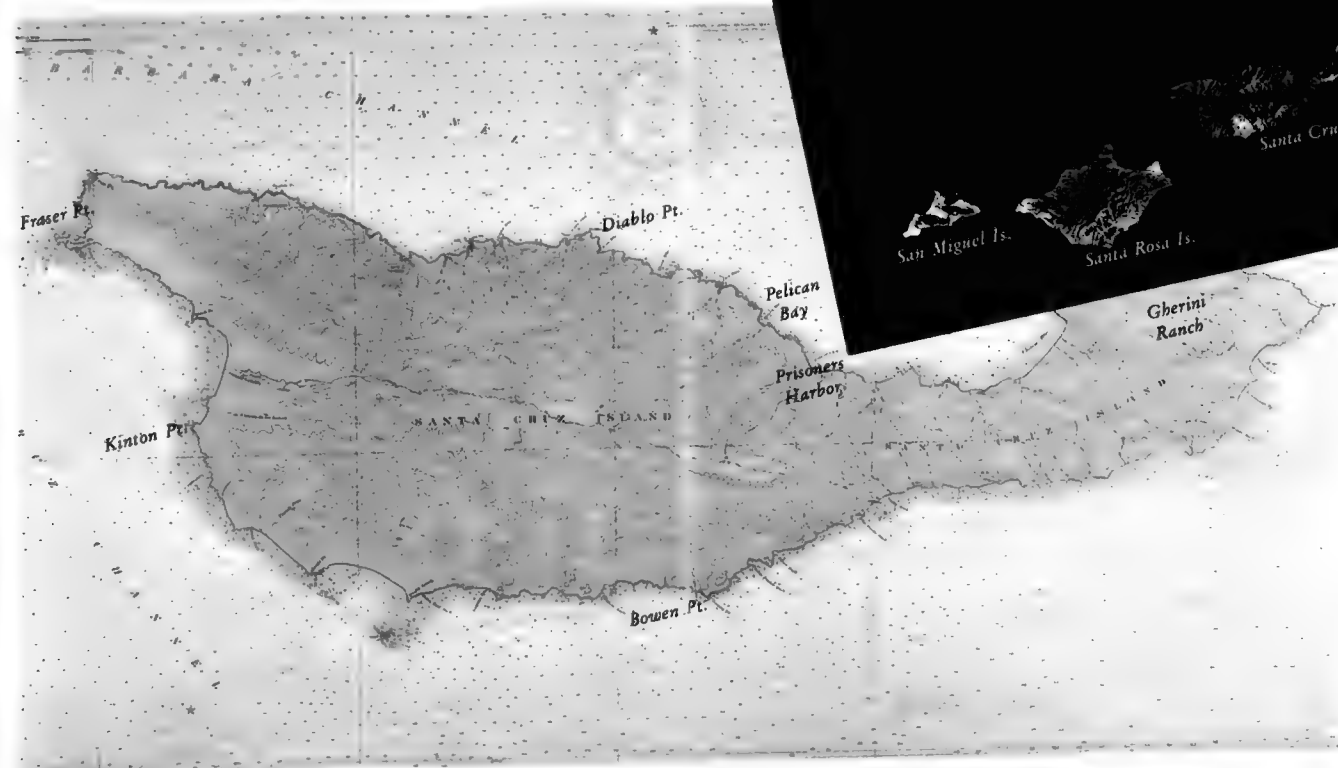
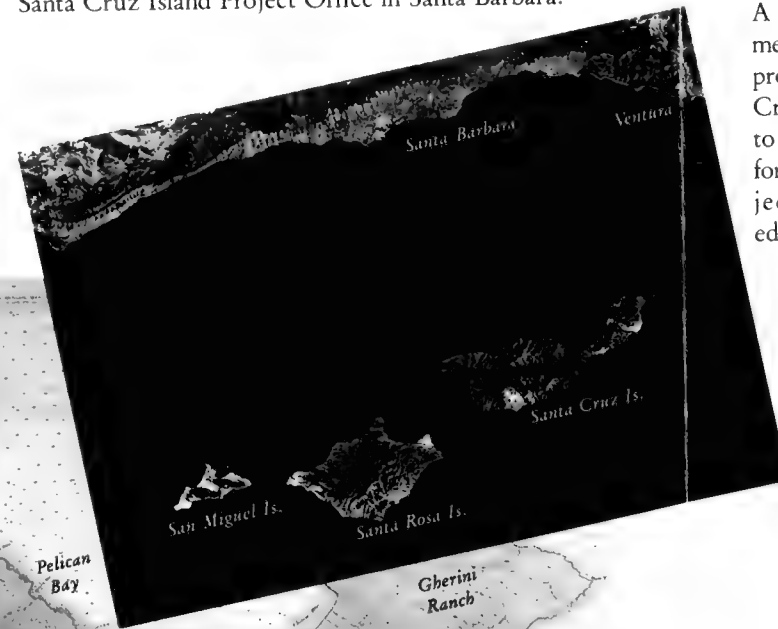
Although limited public use of Santa Cruz Island will be encouraged, the island's biotic communities are extremely fragile, and intensive recreational development and use would be disastrous. A Public Use Plan provides for those uses which (1) do not threaten the island's natural resources, and (2) serve to emphasize the island's biological and historical importance.

Access

Due to its isolation from the mainland, consequent costs of transportation, and fragility of certain portions of the island, access to Santa Cruz Island is strictly limited. Yachtsmen may obtain landing permits by writing the Santa Cruz Island Company at 515 South Flower Street, Los Angeles, CA 90071. These permits allow daytime landing and list strict rules governing activity on the island.

There are no established trails, camping facilities, or services of any kind on Santa Cruz Island.

A limited number of naturalist-led day-trips to Pelican Bay are scheduled each year. Groups representing educational, research, and non-profit organizations are eligible to request reservations. Inquiries regarding these periodic trips may be made by contacting the Santa Cruz Island Project Office in Santa Barbara.



Funding

The Nature Conservancy's Santa Cruz Island Project began with a gift of land and the acquisition from the Santa Cruz Island Company of 54,500 acres at a cost of \$2.6 million. A major corporate gift provided a large sum to begin the drive for funds, and then individuals, foundations, and corporations participated in the massive effort to raise additional money for the acquisition. A second fund-raising drive resulted in the establishment of a preserve fund which has been instrumental in providing for Nature Conservancy stewardship of Santa Cruz Island. Continuous financial support is necessary to ensure permanent protection of this important landform. Your contribution to the Santa Cruz Island Project will help provide for continued research, educational programs, and general island stewardship.



The Nature Conservancy

A private, non-profit membership organization, the Conservancy was incorporated in 1951 in the District of Columbia for scientific and educational purposes. Since its inception the Conservancy has preserved over 2 million acres – including forests, swamps, streams, prairies, deserts, marshes, and mountains – throughout the United States, Canada, and Latin America. It has focused significant efforts upon the protection of islands and island groups, including preservation of Virginia and North Carolina Barrier Islands, Maine coastal islands, and the San Juan Islands in Washington State.



Join The Nature Conservancy

Your contribution of \$10 or more to the Santa Cruz Island Project entitles you to all regular member benefits of The Nature Conservancy including a quarterly newsletter on the Santa Cruz Island Project and access to over 30 preserves in California.

Enclosed is my special contribution of \$_____ for The Santa Cruz Island Project.

Name _____

Address _____

Phone _____

Please send this form with your tax deductible check payable to The Nature Conservancy/ Santa Cruz Island Project, 213 Stearns Wharf, Santa Barbara, CA 93101.

with J

1989

Journal

56

~~Santa Cruz Island 25 mi W of Santa Barbara, Santa Barbara Co, California~~

21 Mar

Of salami sandwich, candy, fig bars and steel
tea we head W to Cochon Prieto. It was a
2 1/2 hour hike up over the crest of the island to
a beautiful blue bay immediately W of the station.
We climbed ~1300 ft to ridge in the middle of the
island then down ~1 1/2-2 mi to the bay at sea
level. The red soil is short the pale is shade.
The N part of island came from LA the S from
San Diego. There was plenty of Bachmans with
Bewicks Wren, Orange-crowned warbler. Bird
very secretive. The scrub jays are huge and brilliant
their bills are 2x normal. They are very common.
Red-naped Sapsucker in Eucalypts at station, also
woodpeckers in the live oaks and Northern Flickers
round out the picoid representation. Saw an
Amer. Kestrel also in Eucalypts, Mockers too. The
Bewicks Wren sound very much like Song Sparrows.
There is a small creek that winds its way around
the trail toward Cochon. Willows, Poplar trees and
Bachmans live its edges, I believe orange-crowned
warblers were in this area. Rufous-sided Towhees
were in the oaks and chaparral. Along the stream
at dusk I thought I saw a red-tail goose
low thru the vegetation. All the avi-fauna seen
decidedly shy and hard to see. Once we
reached Cochon Bay we walked N along
the shore ~500 yds and did some tide

th, J

1989

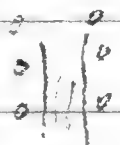
Journal

57

~~Santa Cruz Island, 25 mi W of Santa Barbara, Santa Barbara Co., California~~

21 Mar

pool investigation. There were anemones, at purple sea urchins, mussels everywhere. The beach was beautiful white sand at low tide. There were mounds of abalone shells and charcoal left from the Cochise Indians which were extinguished by the Spanish from the island and brought to mainland when they succumbed to white man's diseases. On the beach we found turtle tracks leading from the water to 25 yds inland where they turned around and headed back to ~~shore~~^{water}. By size it may have been a green or a loggerhead. *Macysa* Island to the S is a breeding site for Brown Pelicans at the tide pool I collected an empty shell of *Astraea undosa*. Ken found a beautiful conch with a beautiful polished surface.



1 1/2"

turtle



conch

Today, we traveled W to Forney Cove (a 2 hr drive). We left the station at 9:00 AM we traveled along the S ridge road. Saw Golden Eagle circling with 2 Northern Ravens, many American Kestrels. (^{>20}) Saw a pair of Kestrels perched on a telephone pole. Along the River bed - saw Song Sparrows and Rufous-crowned Sparrows. Rufous are large Brown Towhee-sizes. The habitat of the sparrows was dry stream bed with *Mimulus*, *Baccharis*, Pepper Tree, Mesquite (which was blooming lavender with tall multiple flower affairs), California Sage, and Scrub Oak. The

with, J
1939

Journal

53

~~Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co, California~~

21 Mar Sparrows were on the Baccharis predominantly.

I heard full song sparrow calls and good chirps.
The birds were small with dark plumage.

I also saw some song sparrows in the old cattle
barn area just E of Foney Cove Ranch House.

Rob was at the house he said that Nature
Conservancy had censused the pips and that the
estimate was +10,000! The Nature Conservancy

is pretty extortionate but Rob is a ranger or facilitator
of hunting trips so he is ambivalent. In the Beechey
Pine along the ridge I heard Rufous-sided
Towhees, Scrub jay not much else. At Foney

cove there was short grass with golden flowers
and prostrate Baccharis. Horned larks and
water pipits were prevalent on the plain. Down

by the Ocean, Black Oyster Catchers (4), ^{2 pc. or}

Western Gulls, Pelagic Cormorant (Breeding colony)

^{Buddy}
~~Black~~ Turnstone. As the flock (~6) turnstones

flew up from the beach there was plaintive Squeaky
and a very dramatic Black and White Back pattern and
the throat looked black. On the Jeep ride back
from Foney Cove we spotted two Santa Cruz Island
foxes. These dogs were short-legged and fat.

They looked like lazy ~~stubby~~ Shelties.

They were grey on back red underneath with
bristly grey and black tail which was as long
as the body. Face was grey mask or black outline.

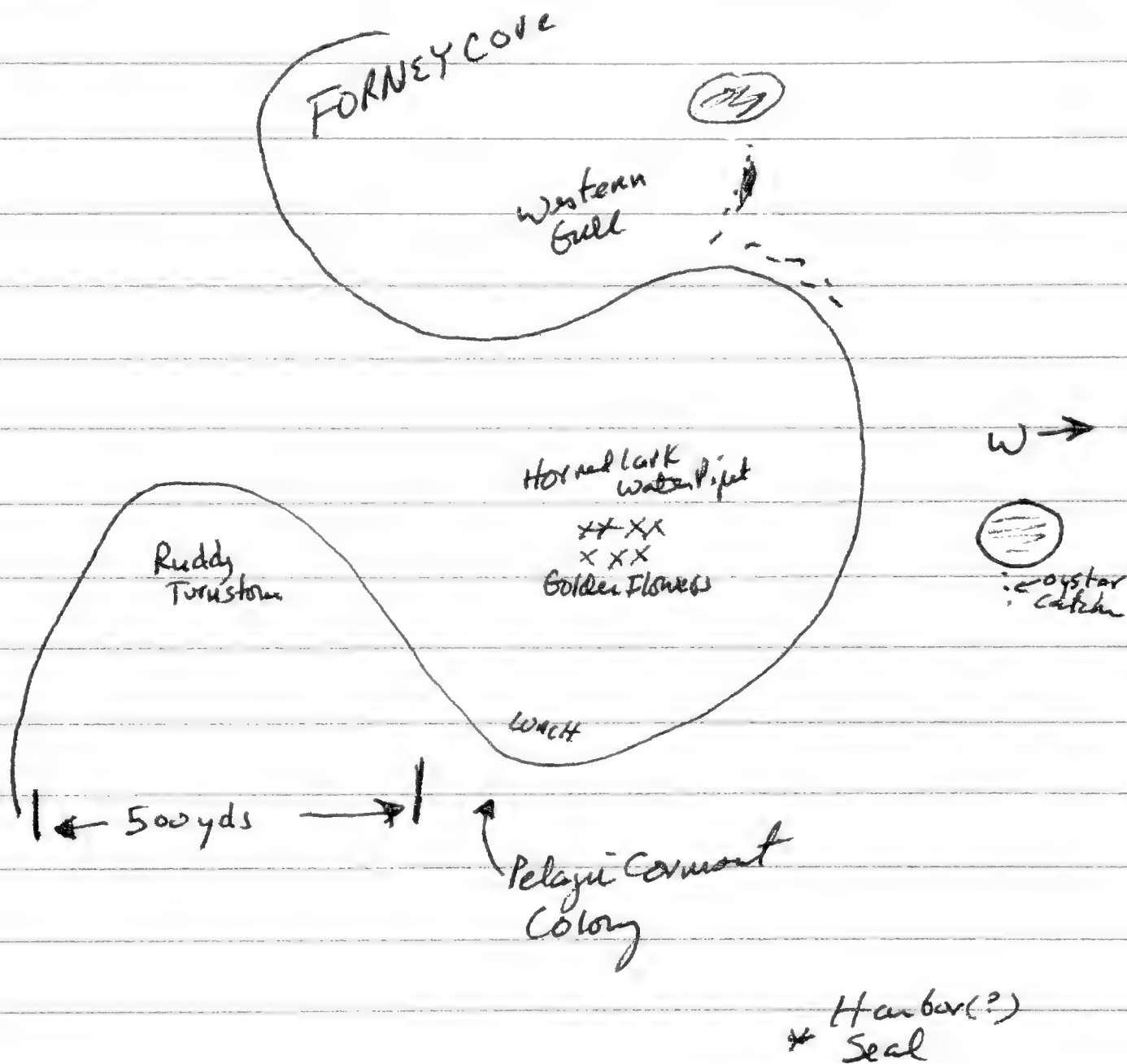
uth, J
1989

Journal

59

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California

21 Mar



As we ate lunch on N Pt of jitty we saw $\frac{1}{2}$ mi. of shore a seal with rear and ~~off~~ ^{part of} flippers sticking out of the water. There were 3 or 4 other seals with just their noses poking out of the water some were within a few inches of this oddly behaving indiv. The indiv with flippers sticking out was ~5' long and once or twice in 25 minutes it rolled over with just its head sticking out but these birds lasted no more than 30 seconds a piece.

The albatross likes the shoreline. I collected

mt. J

1939

Journal

60

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co, California

21 Mar an empty shell ~ 6" long and 4" wide with a series of ~ 6 small 1/8" holes along the side. Also in the tide pools we saw a Robin Fish in a 6' deep 15' long pool. Purple sea urchin, + 1 x 10⁶ mussels! The beach was carpeted with the mussels. Sea anemones were large some 1' long and 6" wide! Ray and Bob fixed chicken veggie stir fry for dinner.

Species List.

Brown Pelican ~ 8	Ferry Cove	Brewster's Wren 3
Pelagic Cormorants 50	Ferry Cove	Logperch & Shrike 2
Snowy Egret 1	Ferry Cove	Water Pipit 25 Ferry
American Black Oystercatcher 4	Ferry Cove	Rufous-sided Towhee 15
Killdeer 2		Song Sparrows 5
Ruddy Turnstone ~ 8	Ferry Cove	Rufous-crowned Sparrow 4
Western Gull 40	Ferry Cove	Western Meadowlark ~ 75
Pigeon Guillemot 4	Ferry Cove	~ Goldfinch 20 Ferry
Golden Eagle 1	Bridge Road	House Finch 4 ♂: 2
Amer Kestrel + 4	Pair	Starling 40
Calif. Quail + 40		
Mo. Dove + 20		
Anna's Hummingbird 1	40	
Northern Flicker ~ 15		
Black Phoebe 2	Farm yard at Ferry	
Horned Lark 35	nesting at cave (3 eggs from speckled egg)	
Barn Swallow 5		
Scrub Jay 50		
Northern Raven 20		

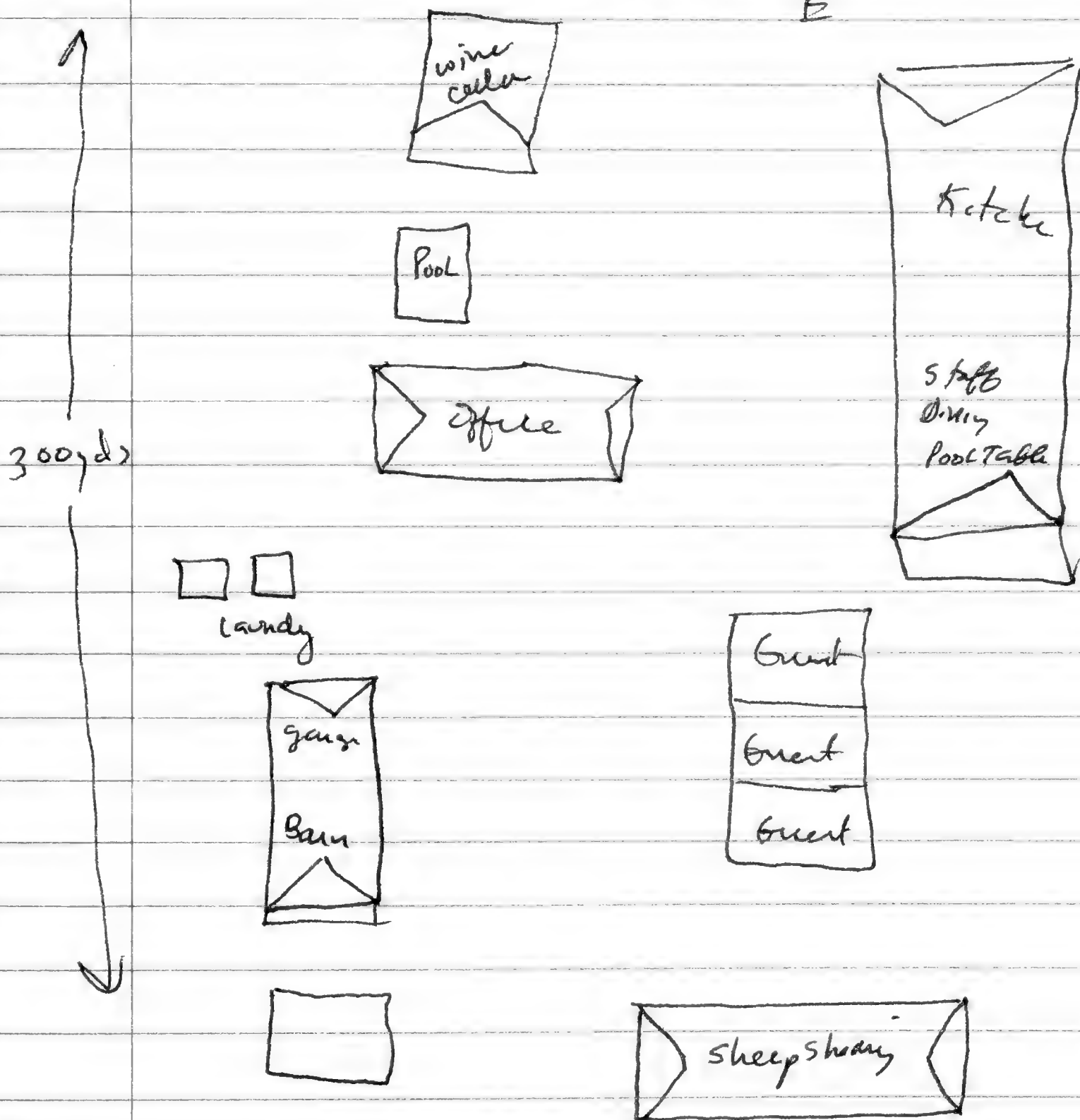
Fl, J
1939

Journal

61

Santa Cruz Island 25 mi W Santa Barbara, Santa Barbara Co, California
22 Mar 0830 went to Stanton Ranch E of field station
for a tour of the grounds by Brian

↑
E



1000 we left W 1 mi down road to Cascaedia.
The turn N is just past the ~~the~~ high 4 wheel-
drive hill then is a wash and if you follow the
300-400 yds you come to dammed off area.
This is 1/2 mi past Serealeptus grove with
Native Conservancy Cabin. Chris and I liked it

with, J
1989

Journal

62

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co. Calif.

22 Mar The gorge to inspect the deeper pools. We found many (~4) with beautiful waterfalls and holes in the stone. The pools on average were 10' wide and 4-5' deep. They were clear and cold. Black Phoebe were tentatively displaying at the ~~edge~~ very edge of the pools. They gave a sharp "cheep" and another would fly in from 10' above diving bombing. Chris and I sat wait deep in a pool and ate lunch (Burrito, Beans, Bacon, tomato and lettuce) Canitos and Chocolate Chrys. Then we climbed up the gorge until ~1:30pm then climbed out of the gorge and walked S back to the Road. Then we met Ken, Liz and Bob and we took another dig in the man-made pool. It was all quite refreshing. The gorge was lined with Baccharis with willowy branches and long leaves. I recorded song sparrows, Bewick's Wrens and Orange-crowned Warblers today. Then we may ss call at Stanton Road and also many in the dead hemlock wood S of station. Very dark birds. Back at station by 4:00pm. Walk to wash takes ~30 minutes easy walking.

dog
Fido
Ratwich

Lyndell's
room



Hemlock

Eucalypts

Cedars

Oak
Baccharis

Baccharis
up in

hill

Ward

1 mi

Robert
down ridge

1st pool

nth, J
1939

Journal

63

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co. California

22 Mar

Species List

~~10~~ Golden Eagle 1

Red-tailed Hawk 1

Amur. Kestrel 6 (2 nearby in Sycamore E of station)
(call: kek-kek-kek)

Calif. Quail 75

Turkey HD 2

Peacock 2 Stanton Ranch

Mo. Dove 30

Allen's Hummingbird 1 ♂ W of station in Hinkley

N. Flicker 6

↗ Black Phoebe 5

Acorn
Woodpecker 2

Bar Swallow 10

Scrub Jay 12

N. Raven 4

Bush Tit 6

Bewick's Wren 1

N. Mockbird 2

Orange-crowned Warbler 5

Stage call recorded
"tull breet-breet"

Rufous-sided Towhee HD 10

Song Sparrow 8

Rufous-crowned sparrow 25

House Finch 2 ♂: ♀ Ridge top

th, 8
1989

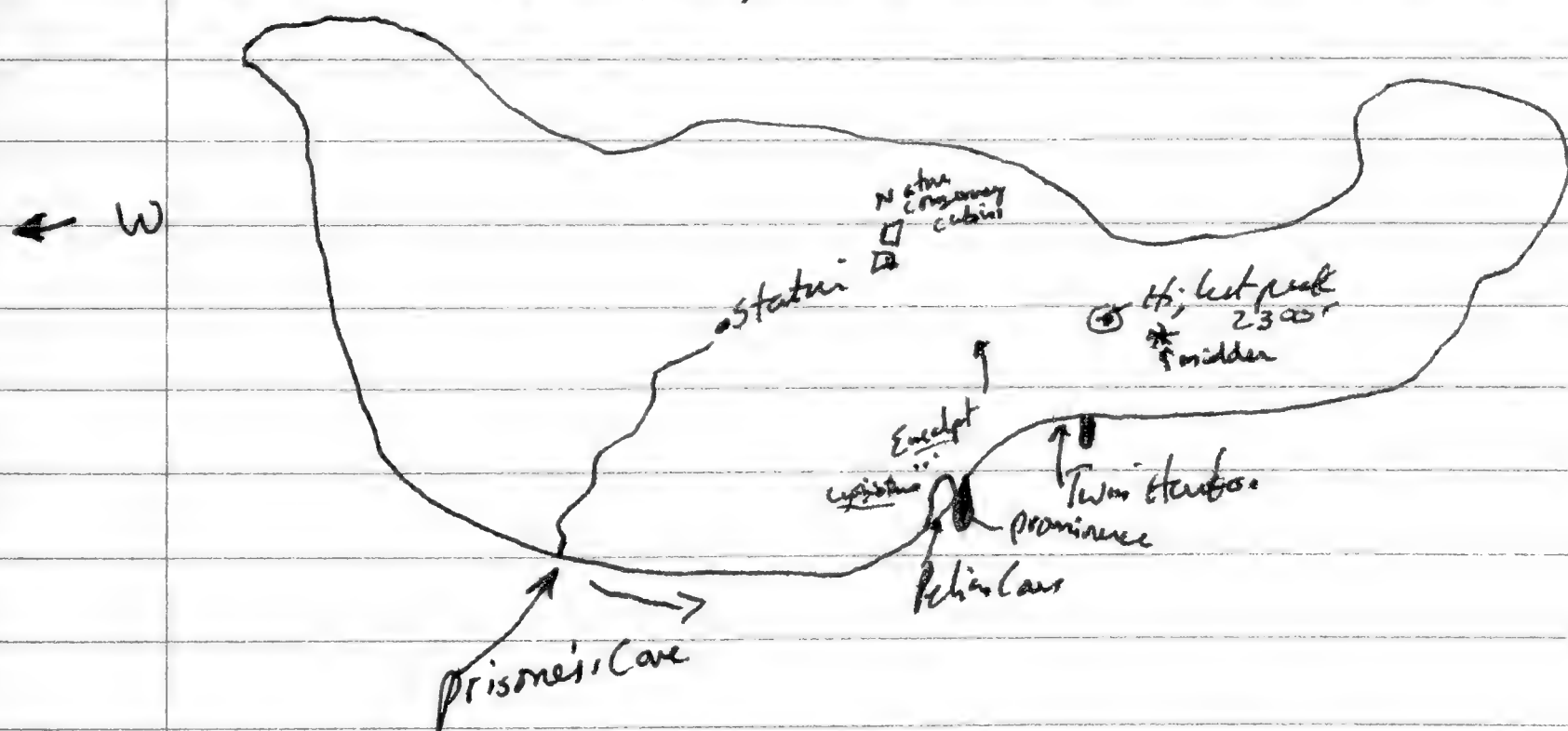
Journal

64

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California

23 Mar ~~Ken & I~~ 0530 AM awoke to record Song Sparrows and Orange-crowned Warbler. I walked W to the Eucalyptus grove and E to entrance to Stanton Ranch. Recorded Bewick's, Kestrels, Western Meadowlark, Calif. Quail, Allen's, Northern Flicker etc... It was quite foggy with no wind. Recording was good. Recorded until 7:30 AM. Ate breakfast of Bisenti, scrambled eggs and Major Dickerson's coffee. Ken then rented a jeep and drove us E to Pirone's Cove.

Spotted flycatcher (dun) on way to car.



We found a sick seal at the cove. It was tremendously emaciated, 6 folds of skin on its abdomen. Ray and I headed W along the shoreline for 1/2 mi to Pelican Bay there were about 3 or 4 seals to traverse. We should have gone to twin harbors but mistook this spot. Pelican Bay showed signs of habitation at once there was a house but now it looks like a

with J

1939

Journal

65

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California

23 Mar campsite with stumps and a flat spot for a tent. The fog was beautiful and there were 3 seabirds harbored when we arrived at 11:20 am. From Pelicans came a ^{*Lyonotheanus*} ~~*Lignathecus*~~ or Ironwood Tree were found surrounding this fog. The Corymbus was also in bloom. A seal was playing in the harbor. It looked like he saw us '200' above him. We walked S from Pelicans in a grassland. There were also *Eucalyptus* lining the cone. 4 Ravens were squawking in the canyon on E side of Bay. There were a few Lepus in flower. We walked S for ~ 3 mi we were looking for the Cave middens Ray had explored yesterday. Because the fog was so thick he could not see off the highest peak. The middens are 300 yds below the highest peak and to the W in the valley about 100 yds to the W. But we under shot since we took off at Pelicans and not Twin Harbors. We ate lunch on a peak ~ 1/2 mi N of highest peak. I ate an egg and cheese biscuits and apple. Drank a quart of water for whole day's travel. Because it was overcast it was not too hot. We hiked further S until Ray got his bearings and we walked along the Ridge W to the highest peak. The *artemisia* (legume, pea green with marigold like yellow-flower) were in bloom, many flowers were blooming yellow. We came thru a zone of

Pelicans
Ericaceae
also a
red scrub
or with
pink flowers
except for
dusty
be fed by
adults.
milkweed
of the adult
to top from mid-
to feed when
young.

7/9, J
1989

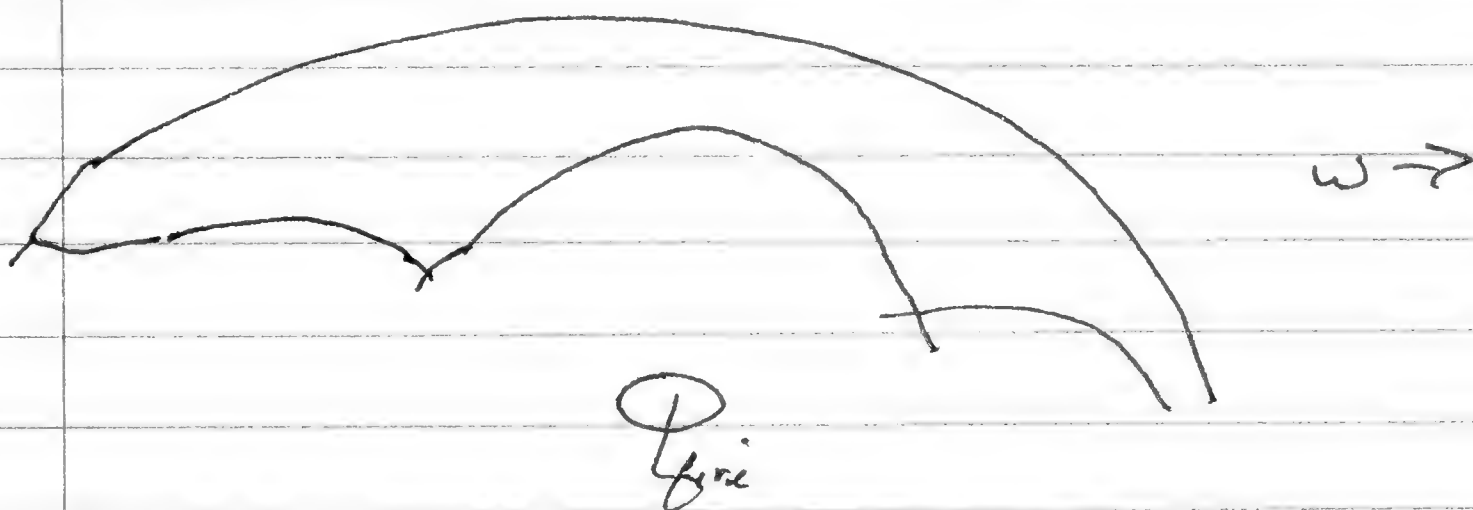
Journal

66

~~Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California~~

23 Mar

Bishop Pinn. On the high ridges there were only low growing plants (1') We walked W to the middens at the sun broke thru at the peaks. The middens were in a large cave 20 yds by 6' high (at entrance)



Abalone shells were all collected once the area it was ~1900 ft in elevation just up the valley from Twin Harbors. We left the middens at 3:25 pm and headed S just to the W of the peak following the old fence. At the peak we spotted the Nature Conservancy ~~camp~~ cabin and headed E down slope (leaving the valley with the fence) we went ESE until we hit the road just at the hill with the Nature Conservancy cabin. Looking NW from Nature Conservancy cabin into the highest peak the middens are to the W in the valley ~200 yds from top. The valley echoes tremendously ~5 times before it becomes inaudible. We returned to station at 5:15 pm. This was a strenuous day's hike but well worth the effort. If the day had been clear, more would have been visited.

Smith-J
1989

Journal

67

~~Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California~~
23 Mar Species List

Red-Throated Loon (winter)	1	Prison Harbor
Brown Pelican	4	"
Pelagic Cormorant	6	
Black Oystercatcher	2	Pelican's Harbor
Killdeer	1	Station
Western Gull	6	
Pigeon Guillemot	2	Pelicans
Golden Eagle	1	
Sharp-shinned Hawk	1	Pelicans
Red-tailed Hawk	1	
Osprey	1	Pelicans
American Kestrel	8	
California Quail	1 Band 100	
Mourning Dove	100	Ridge
Aller's Hummingbird	2	Funnel W of Station
Northern Flicker	5	
Acorn Woodpecker	5	
Black Phoebe	2	
Barn Swallow	20	Ridge
Scrub Jay	20	
Northern Raven	10	
Bewick's Wren	35	
Rock Wren	2	HO ~25
Blue-gray Gnatcatcher	1	HO Pelicans in Bldg
Northern Mockingbird	1	Ridge
Cedar Waxwing	15	Pelicans

Pearce →

with, J
1939

Journal

68

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California

23 Mar

Species list

Olive-crowned Warbler	100
Rufous-sided Towhee	100
Song Sparrow	15 station
Rufous-crowned Sparrow	2 station
Chipping Sparrow	1 station
Golden-crowned Sparrow	3
Western Meadowlark	2 HD 10
House Finch	20 Ridge

24 Mar

Chris and I drove to King City on 101 we arrived ~ 7:30 four hours after leaving Oxnard. We ate dinner at Wild Horse cafe 1/2 mile S of King City on 101 ex. t Wild Horse Rd. Not great, typical trucker stand ~\$14.00 for 2 gas. We stayed over at The Best Western (on Broadway) in King City. Nice (\$44/night) but expensive. Yet it was clean. In the morning we drove to the Pinnacles taking 6-16 off of 101 - N. Very nice, but it was raining so we didn't go in.

28 Mar

Russell Tree Res. 2 mi NW Lafayette, Contra Costa Co., Calif. 13044
5:50 am left home for Russell got out at sunrise, it was overcast, misty / Raining all morning and into the afternoon. Banded $\frac{PK}{FW}$: BL/BK at the Hemlock patch east (~~100~~ 75 yds) from Mulberry tree. Trapped it with bait. There is another individual in

with, J
1989

Journal

69

Russell Tree Res. 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft

28 Mar That area. Netted $\frac{BK}{FW} : \frac{PK}{TL}$ at the Birch pole E of the pond. And netted $\frac{OR}{FW} : \frac{BL}{RD}$ at the W side of the pond. Saw and heard $\frac{YL}{FW} : \frac{BL}{PK}$ at the territory where the 2 were taken by the hawk. I saw the hawk again today it is a Sharp-shinned not a Cooper. Nobody is reportedly σ^7 song to type in YL/FW's old territory altho I did hear and see what I thought was a σ^7 . She rose up out of the hemlock N of the oak tree in the center of that territory. She responded (?) to playback. Perhaps YL/FW left w/o mate? I saw both Red/FW and FW/RD in the thistle patch S of their wood pile. It appears they are feeding in that area just N of the hemlock with PK/FW. I also saw GR/FW: OR/BK in the same area he was calling from the metal cyclone fence post just across the road (E) of the Mulberry tree. Later in the morning (11:00) I saw his supposed mate GR/FW: YL/BL at the cattail pond N of the pond ~ 70 yds. She was with an unbanded σ^7 who called frequently. The OR/FW indiv I caught at the W pond side screamed when I pulled it out of the net and also when I banded it. Heard and saw another male up the hill N of road from electric fence plot ~ 100 yds N of cattail pond. Set up net for early morning attempt on Thursday.

Th, J
1989

Journal

70

Russell Tree Res. 2 mi NW Lafayette Contra Costa Co. Calif. 1308 ft

30 Mar

0605 hours out at Russell, fog lifting off low lying areas. Very cold (~ 40) and wet with dew. Had nets ready to unfurl at the cattail pond with at the site N of the electric fence plot 100 yds N of cattail. Caught the male in scrubby thicket areas.

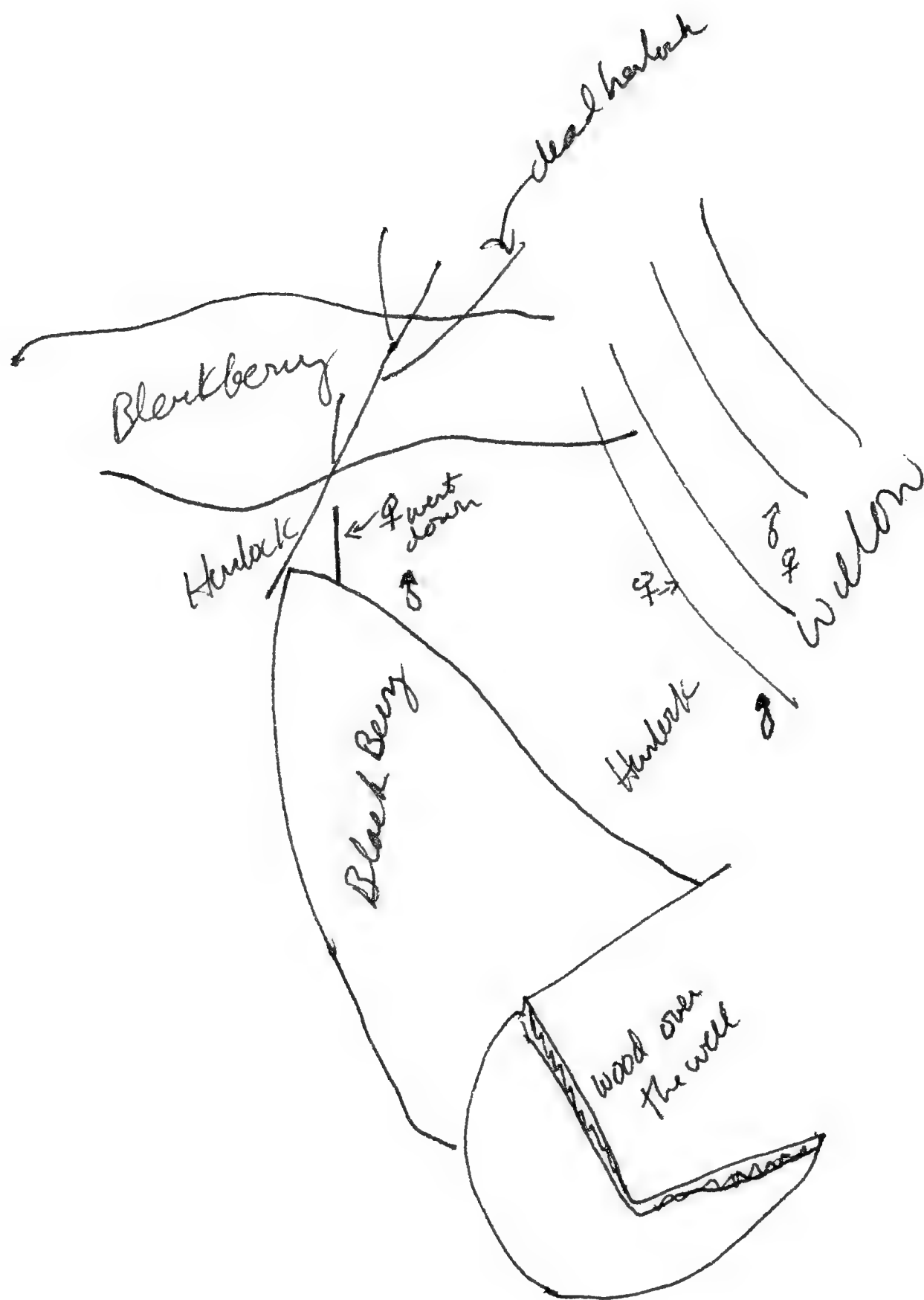
$\sigma^{\frac{WH}{FW} : \frac{BK}{GR}}$ is N of electric fence plot, and $\sigma^{\frac{FW}{GR} : \frac{OR}{BL}}$ is at the cattail pond with $\sigma^{\frac{GR}{FW} : \frac{Y}{BL}}$. I

saw and heard $\sigma^{\frac{GR}{FW} : \frac{Y}{BL}}$ giving contact call to $\frac{FW}{GR} : \frac{OR}{BL}$. I did not hear a female with $\frac{WH}{FW}$. It is a

very bright sunny day today. By 1030 hours the sparrows are quiet and non-responsive to playbacks.

Yesterday Frank must have burned woodpile $\frac{FW}{GR}$ and $\frac{Y}{FW}$'s woodpile is gone and so are many others in the valley. I saw the Reds in the thicket patch east of the mulberry tree they seem to be paired still. Went NE along the road there are no SS in the hemlock patch where they were last year. I called a pair from the very E end of the road in the pine grove. Lots of PD will set up net there for tomorrow morning. Saw Sharp-shin again. This time I was up in the Bacharis

territory NW of the mulberry where $\frac{Y}{FW} : \frac{BL}{PK}$ was ~~very~~ settled. There are now primarily white crowns in that area (~ 12). I was standing by the Bacharis giving "chirp" playbacks when a



with J
1985

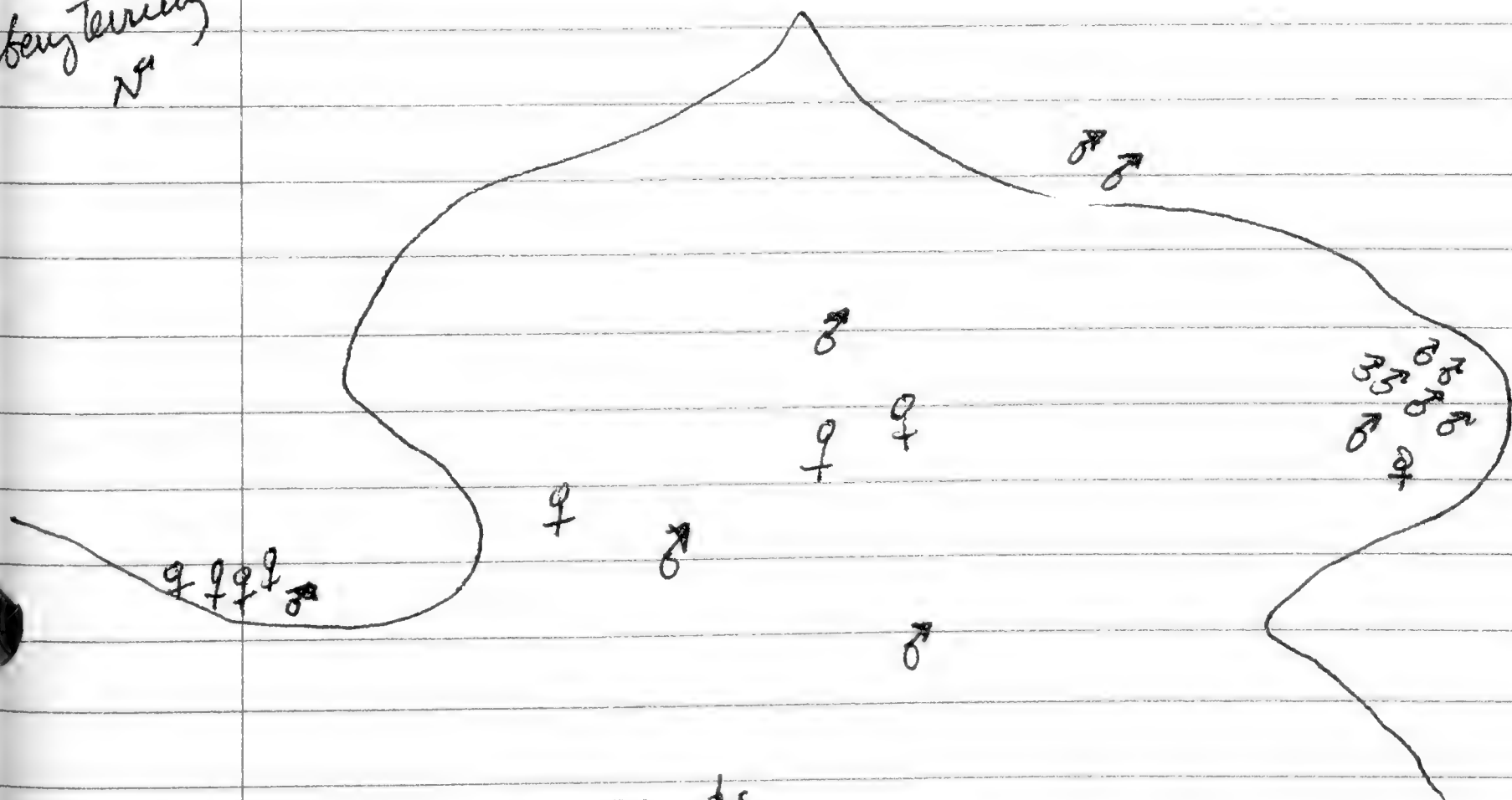
Journal

71

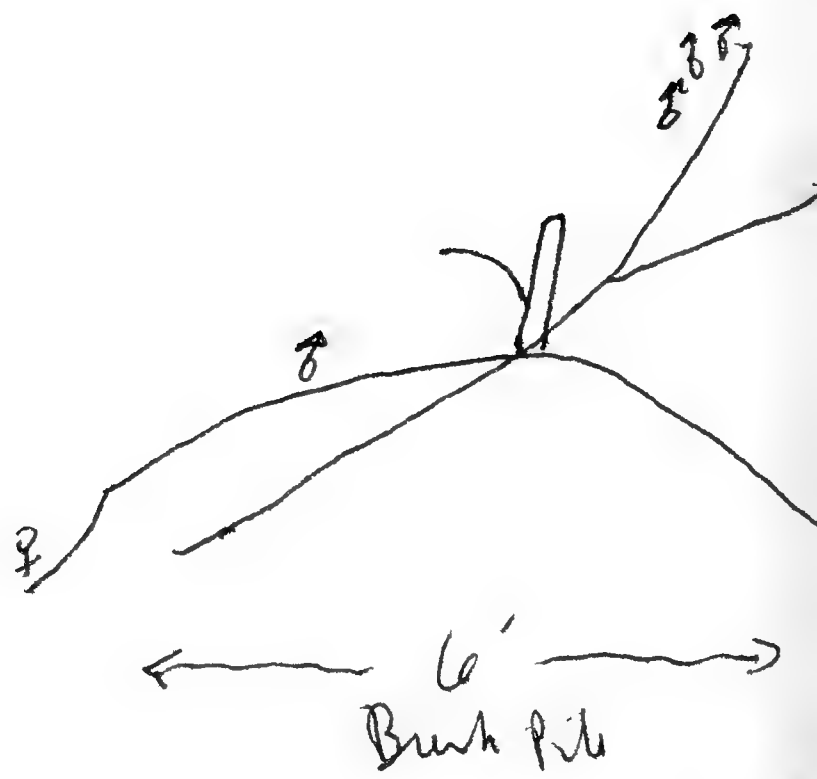
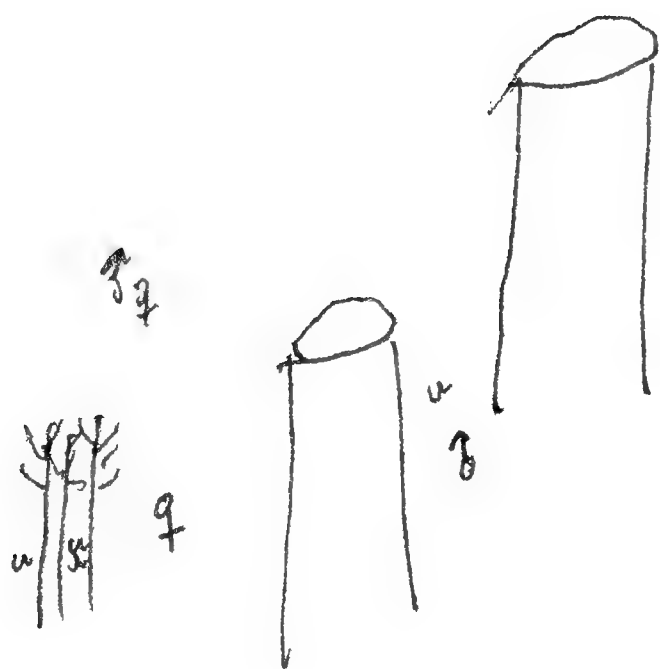
Well Tree Key, 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft
30 Mar

of a sudden the white-crowns burst from the ground in the meadow to the beach. The Hawk flew in low (~8') from the NW and landed on a fallen log 10' to the NE of me. It sat there looking from side to side 30-40 sec. Then flew 5' north landed in grass put head down into grass and then flew off to fence post nearby the planted plot N of the Malbay tree. Then it swooped into the green bamboo presumably hunting the white-crowns and Goldfinches in the area. It then flew off rapidly headed N low (5') following the road out of meadow into the pine grove. The forester one felling logs in the today so it is quite noisy.

Wing Terns
N⁴



20 yds



Smith, J
1989

Journal

72

Russell Tree Res., 2 mi NW Lafayette, Contra Costa Co., Calif. 130 ft

30 Mar Recaptured ♂ of Mulberry. He looks fine, back OK, wt - 23.0g.

1 April Netted $\frac{FW}{BL} \frac{Y}{OR} \frac{1}{2}$ ♀; and $\frac{FW}{BL} \frac{PK}{OR}$ at the W side of small pine grove. They were netted ~1000 hours. I had nets set up at the far E most larger pine grove with circle drive but only saw $\frac{FW}{PK}$. He looked like his head had not been groomed. He was calling and flying but left foot would not clear around branches and he seemed to hobble in the brush. I left the nets up in hope of catching his mate and the other pair I heard at the circle drive yesterday. Many Bewick's Wrens on the N side of the Lagrand. Today it was clear early in the morning windy (10-15 mph, ~45-50°) at 0630 hours it has warmed up and wind has died down but little overcast, birds seem more active now. 11:42 AM I am observing $\frac{BK}{FW}$'s at the brush pile to see if I can find their nest $\frac{BK}{FW}$: $\frac{PK}{YL} \frac{1}{2}$ ♀; $\frac{BK}{FW} \frac{GR}{OR} \frac{1}{2}$ ♂. ♂ was calling from top most dead snag of the pile and ♀ emerged out of the low lying vegetation S of the 2 tall trees. She flew to S most edge of pile and suberged into it. I can hear $\frac{OR}{PV} \frac{PK}{RO}$ calling from W side of pond. Sounds like he doesn't have a mate yet. I walked along the S edge road thru many pine circle drive to central valley. Nothing too good but lots and lots of Poison Oak. 12:10 pm saw both individuals on wood pile.

18
1989

Journal

73

Russell Free Res. 2nd New Lafayette, Contra Costa Co. Calif 1300ft.

1 April

They emerged from wood pile and flew to low lying vegetation
6H 2 by trees. ♂ Nuttall's is powdery and calls from "gle-rip"
the by trees surrounding the wood pile. His full red head
is brilliant against strongly barred back of black and white.

12:21pm both indivs. flew from N 20yds onto the trash pile
made 6H or sang female disappeared into W side of pile.

♂ chased a dark-eyed junc from X gear to trash pile.

12:48pm indiv emerges from low lying veg momentarily then disappears.

I heard some "chirping". 12:55 again indiv emerges from
S end of low lying veg fly N ~ 5' and disappears with
a few chirps. 1pm stopped observation. Failed Central
Valley Station.

2 April

0625 hours arrive at Russell, very warm ~ 55 no
long underwear necessary. Tried to net FW/OR ^{wh} RD's
mate but to no avail. All activity ceased ~ 1000

hours. At 0725 I observed ♀ ^{FW} BL ^{HL} OR with nesting material
in mouth. She was diving down near Bachan by the
old barbed wire fence. Tuesday I found the sharp-shinned
nest in the pine grove in the draw E of FW/BL.

They have built on S edge 20' up in conifer
~ 25yds ESE of Eucalyptus. I saw at least both
indivs. One of them brought a branch to the nest. I also
saw the indiv fly over this draw ~ 0830 - 1030 several
times. Heard 2 or 3 calls during this period.

Tuesday, I saw ^{FW} OR RD BL acting like she was going to
pull up grasses but I never saw her actually do it.

Smith, J
1988

Journal

74

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co, Calif 1300ft.

6 April

1840 hours observing $\frac{PK}{FW}$ $\frac{BL}{BK}$ and mate in hemlock. He was "sipping" as if she were on egg. At one point male called from SW corner of hemlock. I was standing on W center. Female arose from E side past the center walked (it seemed) and flew 10 yds WNW to edge of hemlock there she called as she held her wings out in a feigning posture. Toward the end of the watch I moved W of the patch 35 yds. When I did a ♂ called, a ♀ answered from W edge of hemlock and also a response from thistle patch where $\frac{PK}{FW}$'s had been out.

It seemed that at one time or 2 possibly there were 3 my anons in the hemlock.

1847 hours $\frac{FW}{RO}$ $\frac{WH}{PK}$ was in small hemlock patch just E of mulberry (across the road). An rdw from W side of hemlock gave ♂ call and this rdw responded w/ a ♀ call. $\frac{FW}{RO}$ $\frac{WH}{PK}$

is in the small thistle patch. Both $\frac{FW}{RO}$'s in small thistle. ♀ came up and responded to ♂'s call

from 6:15 thistle patch $\frac{WH}{FW}$ is ♀. 1935 $\frac{WH}{FW}$ $\frac{BK}{PK}$

cally from area where originally banded. I also heard an rdw cally from $\frac{BK}{PK}$ 2nd site but not seen also.

uth, J
1989

Journal

75

Russell Free Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif. 13198

April

0624 hours arrive at Russell, too late to catch FW/OA ^{wh}AD mate again but she eluded me.

She has been calling from Sand of Po grave and also giving calls in large conifer.

I did not warrant (2) ad Golden-crowned Sparrow. Her behavior would indicate she is nesting.

At 0800 hours I took down the net and started obs. on FW/BL ^YRO and ^{PK}OR pairs.

They were very quiescent, sitting in thistle patch until 0925 hours. It was quite warm after this morning but not so humid as yesterday, there is a good!

keep. Saw Sharp fly W over the canyon.

Also saw Red-tailed fly 0730 hours in canyon.

At 1000 hours I found the song Sparrow nest of FW/BL pair. I had observed ♀ with nesting material as I tapped away thru their territory. Pair became agitated.

flew in from thistle patch as unbeknownst to me I located the nest. I walked beyond the nest at 25 minutes birds were quiet.

I decided to walk back (S) 15 yds to where I had lost the ♀ with stuffy in her mouth.

As I did, I spotted the nest. 1 1/2' high off ground in low lying prickly bush ~ 2 cubic feet.

The bush is 2 1/2' E W of fabled wire where I flagged. The area is opposite the small pine grove. I put dog away around nest.

Smith II

1999

Journal

76

Amell Lake Res., 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft.

7 April

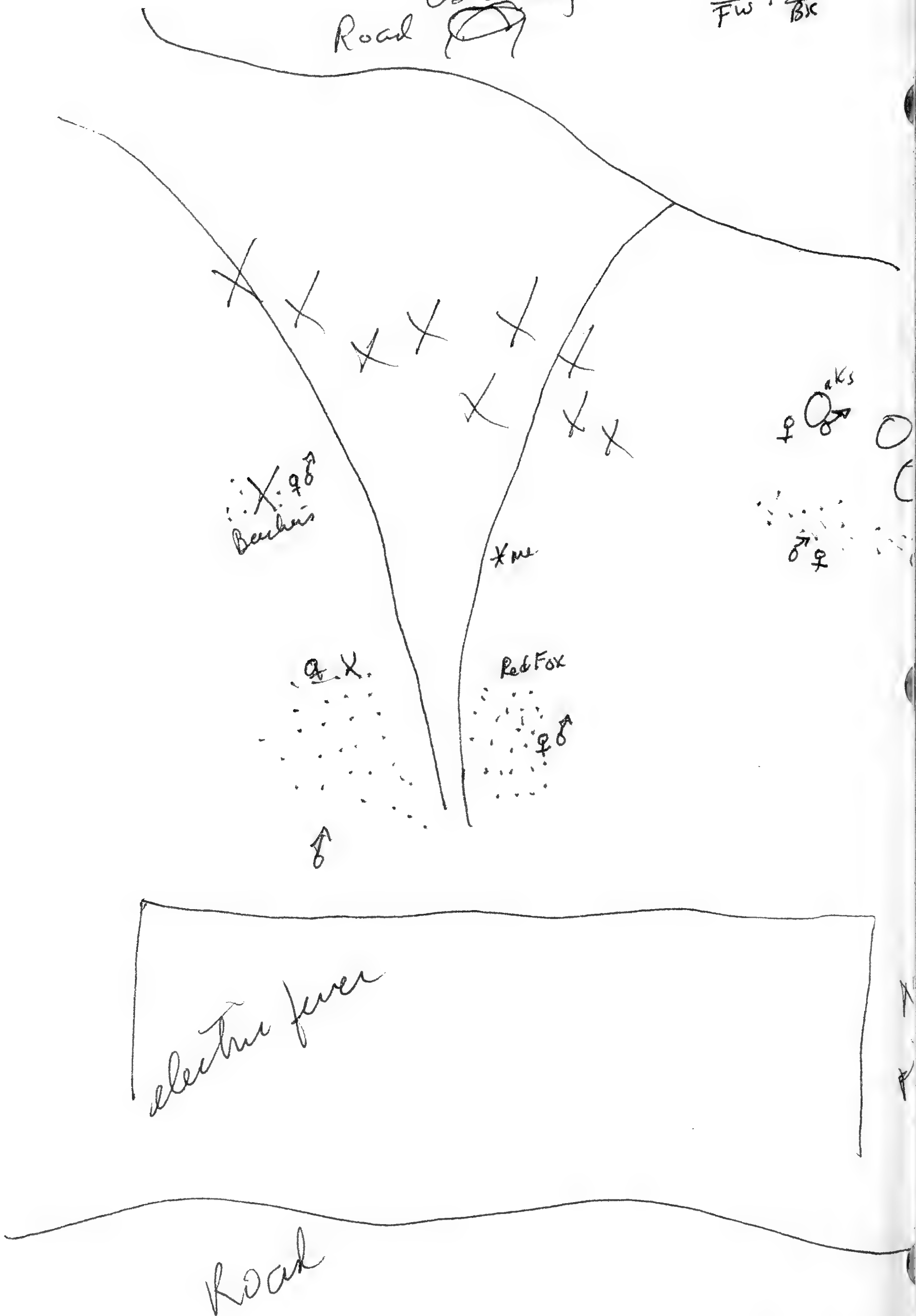
There were no eggs. I presume it is almost finished since cup was sturdy and well formed, but I did have material with her this morning.

9 April

● 1700 hours bright sunny ~ 85°F looking for BK/FW's pair nest. Heard ♂ sing from small grove of pines 30 yds E of pond. I scared up the ♀ from the WSE most deciduous (populus?) tree. There was what looked like a start. In retrospect the ♂ started calling when I got within 5 yds of nest. I had started the search at the wood pile but found nothing and got no response. I checked the tree-haven tree and virtual pine nothing, checked Redwood 20 yds SW of pile nothing. So perhaps that day I had so much looking in the pile fleetered them. Went over to BK/FW's W side of pond. Heard whom I thought was him sing and consort w/ unmarked indiv. I scared them both up out the henlock (dead) that lines the W side of pond. I flagged the NW corner of what I thought looked like a start with pine needles. They gave some sipping while I was in the area but only for (minute or so). At BK/FW's area there was no sipping at the start seen further along. In both areas there was lots of white-wash.

Road Observatory

Wh
FW, GR
Bx



~~77~~

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif. - 1308 ft
10 April @ 1606 hours came out to do observations on #Wh/pw: 6k
in the draw N of the electric fence across the road from the cattail pond. It was with his ♀. Last night I heard them call from the by Bachman on W side of draw at also indent hawklock SE of there 30 yds.
Today when I climbed up the middle of the draw the ♂ called from the oak grove & ♀ responded from the willow thicket just S of Oak grove on E side of draw. Positioned myself directly b/t the willow thicket w/ the Bachmans they are about 45 yds apart. I scared up a Red Fox as I climbed the draw. It was lying in the tall grass on a foot path I had made last night. It was a long fur w/ black ear tips, fur was golden colored. There were white around the joints. At first I thought it was someone's old house pet. But then I saw the bushy tail. It looked back at me while I watched it ascend the W side of the draw. It walked NE along the ridge top out 4 mts. In all it took 15 minutes to go 250 yds.
I saw Western Bluebird pair today, at a keyhole.
Saw first Red-winged Blackbird on the 8th.
Onions have been back since 3 April when I saw 2♂'s calling in poplar near electric fence plot
Temperature was cooler today in 70's and now 18-32 is chilly for short sleeves ~65

th, J
1939

Journal

78

Russell Free Res., 2 mi NW Lafayette, Contra Costa Co., Calif 1300ft

13 April

FW/BL ^{FW}PK/BL

had four eggs to transfer

egg 1 length 18 mm
breadth 13
weight

egg 2 length 18
width 13
weight 3g

egg 3 length 17
width 14
weight 2g

egg 4 length 18
width 13
weight 2g

4 unfaded

♂ 2031-8908 ^{PK}FW ^{BL}BK

egg 1
length 20
width 14
weight 2.5g

egg 2
length 19
width 14
weight 2g

egg 3
length 20
width 15
weight 2.5

egg 4
length 19
width 15
weight 2.5

Three eggs from FW/BL nest were traded with four from PK/FW. The 1st egg of FW/BL was broken by me. FW/BL eggs were smaller and had more rusty colored spots concentrated more on the end than PK/FW. During the transfer I put 3 House Sparrow eggs in the FW/BL nest. When I returned one was missing. The eggs had been bored

with 18
1989

Journal

79

Russell Inn Res., 2 mi NW Lafayette, Contra Costa Co., Calif 1300ft

3 April

Three and they were cracked in some places. I wonder if the ♀ tossed the egg out or was it a jog. I checked BK/FW's nest in the small runner among the deciduous tree, it had one egg today. I put down dog away. ~~yesterday~~

Tues (11 April) I found a new pair and their nest S of FW/OE ^{with} DO's territory. It was up the ravine ~100 yds. Nest was in some prickly pines ~2' off the ground it is ~5' NW of the flag. There were no eggs. and I opened fence with nesty material in mouth in the morning. Yesterday I spoke with Mark Reginald at Sager said road was clear for 1st time all year. Birds were singing and that Forest Service will be in Penny Pine near station see 20. When I went back to FW/BL's territory with the transplanted eggs I scared up an adult from 20 yds S of nest under a thistle. Found mulberry tree pair nest. From woods well due ENE 6'. I flagged a tall thistle (2 1/2') just 8" S of the nest. It was ~1 1/2' off ground. 3 eggs. On the 11th of April I saw the Sharp-shinned Hawk's copulating in the pine grove about 20 yds NE of nest tree. Female also pulled at branch as if she was still looking for nesty material.

Th 19

1989

Journal

80

Willow Tree Res., 2 mi. NW Lafayette, Contra Costa Co., Calif. 1304 ft

14 April 1100 hours checked transfer nests. 4 eggs were probably warm in FW/BL's nest. Didn't see ♀, heard her respond to ♂ as I left. ♂ called as I approached nest. PK/FW's ♀ was flushed from transfer clutch. Still 3 eggs, definitely warm.

April 1030 hours Wendy Roberts and I went out for obs. I pointed her at the cattail patch. She saw ♀ at S end also thought she saw ~~an~~ an marked ♂ coming in & say in the territory. I tried to net the pair up S in Ravine from FW/BL w/ no luck. Checked nest had 3 cold eggs. Heard ♂ and ♀ in the vicinity.

17 April 1700 hours tried to find FW/BL's ♀ but no luck yesterday I had heard her near the big conifer SE(10') but not a sound today. Heard ♂ FW/BL call while I was in area. Saw and heard BL/BK PK/FW giving sip-sip and full calls also saw incubated ♀ respond w/ call to his song. She was in the thistles N of nest. Saw GL/FW in this thicket too. Have not seen Red

th, J

Journal

81

1989

Sagehen Creek Field Station, 1 mi W Hobartville, Nevada Co, Calif

18 April Arrived at the station 4 hours after leaving Oakland. Car behaved OK, I ran the AC to make sure I could start it. Seemed to be fine. Mark Reynolds and "Shorty" are running the station this year. Very nice, they stopped by at dinner we chatted about our research. Shorty has worked on geowar in Poppy's at Haskins. She studied in Eugene. Mark worked with Walt at Haskins on Mappie. They are interested in Mountain Chickadees and Steller's Jay now. Mark mentioned I might think of Sino (as a possible field site (contact Kelly(?) Corbett) for more info. at 1:20pm I set out E from the kitchen I crossed to S side of river at foot bridge at E end of meadow. I met song sparrows about every 60 yds. I tagged 6 ♂'s I saw ♀'s but they were quite quiet, I only heard one call. but they were out and visible. Most of the ♂'s were very excited by the tape and would "sip" a lot.

Species List

Northern Flicker 2	Brown Creeper 3
Mourning Dove 2	Yellow-rumped Warbler 2
Steller's Jay 1	Song Sparrow 10
Amer. Robin 10	

at, J
1939

Journal

82

Kussell Gulch, 2 mi NW Lafayette, Contra Costa Co., Calif

2 April 10:44 AM transfer of eggs $\#W/BK$ RH/BL $\&$ of
 0^{th} FW/BK $BK/1/2$. Found nest this morning
4 warm eggs

egg 1 with cap
length 21.71
width 14.95
weight 2g

egg 2
length 20.82
width 15.06
weight 2.25g

egg 3
length 21.11
width 15.29
weight 2.5

egg 4
length 21.14
width 15.19
weight 2.5

Wanted to switch with B^L/FW at
mulberry but nest had at least 2 young
($\#$: 2 day old) and 1 egg, so switched
with unmarked pair above OK/FW .
Found 4 warm eggs

egg 1
length 19.82
width 14.29
weight 2g

egg 2
length 19.90
width 14.52
weight 2.0g

egg 3
length 19.45
width 14.46
weight 2.0g

egg 4
length 20.16
width 14.25
weight 2.0

th 19
1989

Journal

83

Russell Tree Res., 2mi NW Lafayette, Contra Costa Co., Calif 1300ft

25 April 0711 hours overcast, drizzle and cold (40-45°F)

The grass was crunchy from frost possibly.

Observed ^{W/FW} ^{BE} ^{PK} at his unmated ♀.

Found empty fresh nest at N end of drainage attached to a live hamlock. Flapped dead hamlock 3' to SW. ^{DOGS NO AG} ~~At 0930~~ I had observed them the

morning the ♂ and ♀ foraging and flying from nest site to 20-30yds away. They stayed in close

proximity to one another. ♂ vocalizing from everywhere but 10yd radius of nest. Lazuli flew into nest area and ♂ chased it away.

♀ did not vocalize much but she flew around a lot. At 0930 I left without territory and went to the pond. I saw ^{PL} ^{FW} ^{BE} ^{PK} singing from woodpile and flying SE of that pile heard no female also saw one of the ^{BE} ^{FW} ^{PK} on the woodpile but could not tell whom.

at 1030 started obs. on ^{OR} ^{FW} ^{BE} ^{PK} at his unmated ♀. Found nest with 2 cold eggs

on W side of pond in hamlock. Flapped SW of nest 3' and dog-awayed. The nest on

the N edge of the mulberry patch appeared empty is still empty. Heard near red couple for at least one week!

18
1989

Journal

84

Hummer Inc. Inc. 2 mi NW Lafayette, Contra Costa Co. Calif 1300 ft

27 April Checked nestlings at mulberry bush. There were 2 well feathered and one pipped egg that looked very old and dry. One of the nestlings jumped out of nest, heard call to it later in the day - 6 pm. Banded the other nestling 1431-14517 its B⁴/~~PK~~ PK, tarsus one very fat. Female was also caught B⁴/~~FW~~ FW 01/4L, she looked very skinny. I checked nestlings at PK/FW and found 2 nestlings with partially emerged pin feathers and one warm egg. Did not band. Checked nestlings at FW/BL found 4 feathered nestlings with parents in attendance banded 2031-08534 B⁴/RD, 1431-14518 B⁴/RD, 1431-14519 B⁴/RD, 1431-14520 B⁴/RD. Parents chirped as I returned nestlings it took 25-30 minutes to band all 4.

8 April Checked OR/FW's nest on W side of pond 3 warm eggs flushed up & marked.

9 April Banded nestlings at PK/FW in fern patch E of Mulberry. 1431-14521 ^{PK}/~~PK~~ PK 1431-14522 ^{PK}/~~PK~~ PK total were 10/3 just fully pipped no feather emergent. Head feet shed some down, one egg left, pipped and warm, but could not put it on it. Found OR/FW OR/BK's nest in Raddish patch E of mulberry 4 warm eggs, flaged and by - away

with, J

Journal

85

1989

Russell Lake Res. 2mi NW Lafayette, Contra Costa Co., Calif. 1300 ft

29 April

Obs at E side of pond where BK/FW's used to be. Saw ^{PK/FW} ^{PK/PK} ^{calling} BK/FW ^{PK/YL} and an unmarked indiv flew into well while I was looking for nest on SE corner of fenced area. It sounds like there may be a new ♂ N of BK/FW but S of pond. Also saw unmarked ♂ singing in back of Frank's farm.

2 May

egg transfer ~~with~~ ~~PK~~ ~~BR~~ to BK/FW OR/BK

WH/FW BK/BR eggs checked nest no eggs no ♀ in sight, nest had deer hair lining. ♂ was calling near electric fence at S end of draw.

Will try OR/FW BK/AD's nest - flushed ♀

egg 1

length 20.43

width 15.19

wt 2.25g

egg 2

length 19.50

width 15.26

wt 2.25g

egg 3

length 19.65

width 15.24

wt

with g
1989

Journal

086

Russell Lee Res. 2 mi NW Lafayette, Contra Costa Co, Calif 130 ft.

7 May

GR/FW OR/BK's eggs

egg 1

lyt 18.54

width 15.08

wt 2.25g

egg 2

lyt 18.14

width 15.49

wt 2.25g

egg 3

lyt 17.81

width 15.09

wt 2.0g

had rubbery surface

egg 4

lyt 19.08

width 15.30

wt

Found new male in draw E of WH/FW
he was singing this morning. I netted him
at 1800 hrs no ♀ around RD/FW BL/PK

BL/FW RD/GP was not a mulberry ♀ was
feedy fledgling and GR/FW OR/BK was singing
and chirpy all chirpy from the low territory.

4 May

PK/FW's nest fledged. I banded ♀ PK/FW BK/RD

This fledgling occurred 5 days after they had
only 1 in feathers! Checked GR/FW's nest nothing
in it. Heard and saw GR/FW and mounted ♀

in mulberry no sign of BL/FW or fledgling
Collected GR/FW's nest. Collected PK/FW BL/BK's nest

It was 20cm off ground in dead fern. Cup
is 5cm ± 7cm wide. Whole thing 12cm x 15cm.

with 18
1989

Journal

87

Kunsell Lake Res. 2mi NW Lafayette, Contra Costa Co. Calif 1300 ft

4 May

GR/FW OR/BK's nest dimensions: cup 6.0 x 6.5 cm
outer: 9.5 x 12.5 cm. Banded adults
♂ and ♀ ad 4 young in nest above OR/FW.
This family is all GR/FW on left leg. I saw
PK/FW BL/BK carrying food and ♀ is still in area
but saw no fledgling. FW/BL's feed at least
one fledgling. OR/FW call but no sign of ♀
FW/PK rt leg in association with wing ♀ probably
complete nesting end of week. Saw ♀ BL/FW
carrying food from raddish to mulberry but
have not seen fledgling.

Banded GR/FW's ♀ GR/FW RD/OR she had
a big brood patch. Checked OR/FW's nest at
pond flushed ♀ not off nest out 5' south
of nest. 4 eggs warm. Heard OR/FW call

5 May

Banded 3 nestlings at FW/BK's nest, not sure
what happened to 4th egg. By my calculations
these nestlings are ~5 days old. Unmarked ♀
w/ OR/FW at pond was flushed off of 4 warm
eggs. I could still read the #2 on
the one egg I picked up.

8 May

collected FW/BK's and 2 nestlings 3rd was nowhere
in sight.

Th. 1.8

1989

Journal

88

Burnell Res, 2 mi NW Lafayette, Contra Costa Co, Calif 1300ft

10 May

checked ^{R/FW} ^{BL/RO}'s nest at pond 2 1-day
old checks, 1 unpyrified egg labeled #2
and one almost hatched (cut all around)
egg #4. Banded nestlings with one color
band on each leg, left leg with orange
on each

There are
1 adult 2031-08902
young

nestling 1 ^{left leg black} ~~black~~ ~~GR~~

nestling 2 ^{R+fast} ~~OK~~ ~~OK~~

Bill length

2.24

2.31

Bill depth

2.34

2.48

Bill width

1.57

1.61

wing length

5.59

7.17

tail length

.34

0.69

Tarsus

5.19

6.42

mid toe

6.44

7.35

halter, claw

3.60

4.28

molt

head at back downy

head, back, 2°'s downy

age

1 day

1 day

fat

sternal

clavical

claw

2.91 x 1.97

3.09 x 1.43

remarks

2.04

wt 3.08

Sagehen Creek Field Station

Arrived Sagehen 12:30pm very cold overcast

dam broken up, long lines
captive

$\frac{wh}{FW}$ $\frac{PK}{RD}$ \nearrow

$$\frac{GR}{FW} \quad \frac{OR}{YL} \quad \uparrow$$
$$\frac{FV}{FW} \frac{BL}{WH} \frac{FV}{RD} \frac{PK}{BK}$$
$$\frac{EW}{YL} \frac{BL}{GR} \nearrow$$

YL

$\frac{EV}{BL}$ $\frac{YL}{BK}$ ♂

$$\frac{FW}{BK} \quad \frac{GR}{RD} \quad \frac{1}{6}$$
$$\frac{FW}{OR} \frac{wh}{PK} \nearrow$$
$$\frac{FW}{PK} \quad \frac{Y_L}{6R}$$
$$\frac{FW}{W_h} \frac{BL}{BK} \nearrow$$
[illegible]

OR GR \nearrow
FW Wb

$$\frac{BK}{FW} \frac{RD}{YL} \uparrow$$
$$BL/FW \quad \frac{GR}{OR} \quad \frac{Q}{f}$$
$$\frac{BL}{FW} \frac{PK}{BL} \pi$$

~~FLY~~ ~~OR~~ ~~PA 9~~ ~~GR~~ ~~+~~
 YL ~~OR~~ FW
 * * *
 YL BK / GR
 FW
 PK / RD ♀

$$\frac{BK}{W_h} \quad \frac{RD}{F_{ud}} \delta$$

OR
~~RD~~
YL RD
FW ♀

$$\frac{GR}{PK} \quad \frac{GR}{FW} \quad \text{off}$$
$$\frac{RD}{FL} \frac{OR}{BL} \propto$$
$$\frac{RD}{FW} \frac{wh}{OR} q$$
$$\frac{\pi PLbh}{FD Fw} \quad \text{w end Mea}$$
$$\frac{g}{BK} \frac{BL}{\omega} \frac{\omega}{\phi \omega}$$

th, J
1989

Journal

89

Sagehen Creek Field Station 3mi NW Hobart Mills, Nevada Co., Calif 6300ft

2 May

egg 1

length 21.64

width 15.19

wt 2.5g

egg 2

length

width

wt 2.5g

BL
~~FW~~ FW BK / OR ♀ ad. Found nest of BL/FW pair
in low lying dead grasses and willows? (1) 2 cold
eggs. Both ad ♂ and ♀ heard chirping. Flashed 3' to SW
labeled the fly BL/FW BK/BL. Also banded ♀.

14 May

Russell Jarvis Res. 2mi NW Lafayette, Contra Costa Co., Calif. 1300ft

OR
SW's young

1 egg left in nest

nextly ~~at leg~~ colored

at leg? 2nd
colored egg

3rd
no leg

Bull length

3.64

3.83

3.37

Bull depth

2.89

3.30

3.01

Bull width

3.14

3.09

3.13

wing length

16.46

19.09

15.97

tail length

0.91

0.98

not out

tarsus

12.05

14.16

11.75

mid toe

17.08

17.80

14.53

hollow/claw

9.28

10.36

8.48

foot

Some fur is sternal

sternal and fur

little sternal, some fur

weight

10's not emerged, now back

belly 0.95/2.86 another

nothing emerged, still going down

net

head down, belly not emerged

the same as #1

head and back

10.5g

12.0g

10.25g

remarks

Banded

OR X BK X

OR X BL X

OR X BK X

with, 9
1989

Journal

90

Russell Tree Res., 2 mi NW Lafayette Contra Costa Co, Calif. 1300 ft.

16 May nest check at OR/FW's

Band	OR FW	BK	OR FW	BL	OR	YL
Bill length	4.58		4.49		4.08	
Depth	3.65		3.41		3.54	
width	3.28		3.45		3.26	
Wing length	26.49		27.37		24.70	
tail length	3.73		3.74		1.72 2.50	
tarsus	16.66		17.66		15.62	
mid toe	16.58		20.08		19.13	
hallux w/ claw	10.35		11.63		10.26	
foot	much furc, some sternal		same		some furc, but only slt sternal	
molt	only 3rd and 4th 10 (truly) are emerged 0.76		2-9th 10 are emerged 3rd is out 2.94, Back 4.91/10.73		no 10's emerged	
wt	Back 3.02/8.57, Belly 1.24/4.24		Back 2.51/7.57		Back 3.77/8.42, Belly 1.37/3.39	
	15.0g		15.0g		13.5g	
remarks	eyes open, they were not lost time		yes open		yes open	
FW Band	2031-08950		2031-08951		not given	

Flushed ♀ off nestlings at 11:00 am heard ♂ calling. Both gave distress calls as I approached and left nest. Still one unincubated egg left in nest (#4).

Heard a ♂ singing w/ of local from pond.

Observed territory of [♂] FW ad BK/FW ♀ on E of pond. Heard and saw male call from fenced well and small conifer patch. No sign of ♀. Did not approach nest but I was afraid of her deserting again.

Smith, J.

1989

91

Russell Field Res., 2 mi NW Lafayette

19 May Check nest of ^{OK/FW} and nestlings were not there.
Both parents obvious and agitated.

OK/FW ^{4 1/2} 2031-08910

Bill length 9.20

Bill depth 5.92

Bill width 4.56

Wing length 59.28

Tail length 58.66

Tarsus 17.64

Mid toe 18.41

Hallux width 12.88

Molt no

Brood patch no but not as many belly feathers

eye

stare

fat some skin, no fec

clown 8.90 x 5.70

wt 19.0g

remarks squeaked

Sagehen Creek Field Station

20 May Unmarked ♀ Banded ^{OR}_{YL} RD_{FW}

egg 1 4

egg 2

L 20.72

L 20.12

W 15.51

W 15.29

wt 2.5

wt 2.5g

egg 3

egg 4 L 20.21

L 20.35

W 15.01

W 15.37

W

wt 2.5g

wt 2.5

warm eggs all quite translucent

~~PK~~ PK
R0

PK
FW

mtg. 9
1989

Journal

92

Sycamore Creek Field Station

20 May ♀ banded last time with nest BL/FW GP/OR

egg 1

L 20.49

W 15.47

wt 2.5g

egg 2

L 22.08

W 15.53

wt 2.5g

egg 3 faint possible 1 marked on it now 3

L 21.61

W 15.05

wt 2.25

markings worn off re-labeled

all are warm & chirping, scared off nest

collected leaves of pestfish forid. Very thick glossy
no translucence

FW/OR BL/YL ♀ ad FW/OR RD/OR ♂

3 eggs in dead grass 10" above H₂O

egg 1

L 18.60

W 15.49

wt 2.0g

egg 2

L 18.74

W 15.68

wt 2.25g

all eggs
quite
warm

all are not in translucence

egg 3

L 18.76

W 15.59

wt 2.5g

Flagged dead pine 10' south of grass clump with nest

with, J
1939

Journal

93

Sagehen Creek Field Station,

20 May nest of PK/FW ^{BE} 1/2 ♂ & Thirk. ♀ is unmarked
4 eggs warm

egg 1

L 19.37

W 15.34

wt 2.0g

egg 2

L 19.73

W 15.59

wt 2.25g

egg 3

L 19.50

W 15.48

wt 2.50g

egg 4

L 19.29

W 16.00

wt 2.25

remarks

med to heavy shell. warm. 2 Branch of nest tree was flagged
Nest is at Base of willow most visible from W side of
Bush inside the clump of willows to a clearing. I flushed
off the ♀. She made no sound so sipping. I thought
it was the ♂ but soon after ♀ flushed he called
from across the creek. ♀ did not start sipping until
I actually saw the nestbird moved toward it.

5:17pm BK/FW ^{RO} 1/4 was involved in a chase with 1 unmarked
♀ ad 3rd yr indiv now he is changing from an ~~evergreen~~ green

Smith, J

1989

Journal

94

Sagehen Creek Field Station

21 May

R0/FW

OR/BL6⁷

W1/OR ♀

In willow ~ 1 1/2' off ground, in a crotch
well-obscured
from view

egg 1

L 12.85

W 15.34

wt 1.50g

egg 2

L 18.48

W 15.33

wt 1.50

egg 3

L 19.40

W 15.59

wt 1.75g

egg 4

L 18.62

W 15.44

wt 1.00g

remarks - cold but ♀ had been flushed
off for 20 minutes

very cold this am ~ 700 hours 35-40°, per se/c dry br

off. ♀ at ♂ both agitated. ♀ went back to nest

while I had all eggs. These were light to medium shell thickness

GR GR/FW ♂ nest in willow ^{crotch} near where I banded ♂ it is
RK ~ 1' off the ground 4 eggs

egg 1

L 21.11

W 15.90

wt 2.0g

egg 2

20.65

15.77

2.0g

egg 3

20.30

15.91

2.0g

egg 4

20.70

15.77

2.0g

remarks, med shell

light shell

very light

med/light

all very warm

—

111

with J
1985

Journal

95

Sagehen Creek Field Station

21 May

4 eggs of ^{OR}FL RDFW ♀

egg 14

egg 2

egg 3

egg 4

L

20.68

19.97

20.32

20.13

W

15.44

15.32

15.33

15.05

wt

2.50g

2.50g

2.50g

~~2.25~~ 2.25

remarks

very light shell

light shell

very light shell

~~very~~ light shell

3 eggs of BL/FW GR/OR to transfer FW/OR

1

2

3

♀

L

20.65

22.05

21.57

W

15.46

15.51

15.05

wt

2.75

2.75

2.25

3 eggs from FW/OR RD/OR ♂ and FW/OR BL/LC to BL/FW

1

2

3

L

18.44

18.65

18.58

W

15.47

15.65

15.59

wt

~~2.50~~ 2.50

2.50

2.50g

Windy so weights may be off. Thick to med shell
I used the false canary eggs to hold BL/FW's
clutch. When I returned to the adults were off nest
agitated chirping, ♂ called. But nest cup
was warm and egg felt warm too. It is
quite sunny but windy so I don't think it
would have held the heat for 20 minutes.

N

I

.....

W

—

20
1/2
w

1K
ed

N

—

—

—

Sault 18
1985

Journal

96

Sagehen Creek Field Station

21 May PK/FW BK/or ♂'s nest with unmarked ♀
4 warm eggs

	1	2	3	4
L	19.32	19.65	19.44	19.28
W	15.35	15.60	15.47	15.22
wt	1.50g	2.0 2.0g	2.25	2.50
remarks	med	med	Thick	Thick

Base of nest is ~5" off ground in crotch of
a willow. Very windy so weights may be off.

44/FW BK/GR ♂ unmarked ♀ nest 4 eggs warm
on ground at base of lodgepole pine

	1	2	3	4
L	18.60	19.03	19.18	19.73
W	15.16	15.48	15.28	15.36
wt	2.0g	2.0g	2.0g	2.0g

remarks punctured, need to heavy thickness

♀ sat on candying eggs, heated them! Baited 44/FW BK/GR

Nest of 44/RD wh/FW ♂ just at 1st station E of
station. 5 warm eggs: flushed unmarked ♀.

	1	2	3	4	5
L	19.06	18.29	17.86	19.20	18.51
W	14.28	14.12	15.21	14.34	14.36
wt	2.0g	2.0g	2.0g	2.0g	2.0g
remarks	medium	light	very light	light	light/med

nest on
away

less brown
than others

with, J
1989

Journal

97

Runell Ave Res., 2mi NW Lafayette, Contra Costa Co, Calif 1300
22 May Fast Friday (19th) spotted FW/RO^{wh} PK in Bachan's
50 yds S of PK/FW BL/PK's Hemlock patch. He was
sipping like there was a ♀ on eggs but I saw none.
I checked BK/FW's nest but no eggs and no sign
of her. BL/FW has moved up into hemlock just
N of mulberry. There is a new ♂ in the E pond
penis who is also calling across the Road (E
50 yds) in Bachans. Saw PK/FW BL/PK ♂ and BK/PK ♀
calling in hemlock sounded like fledglings were in hemlock
N of nest male sipped quite a bit. Saw BL/FW OR/YL
♀ at mulberry. ♂ is calling from mulberry.

23 May Spotted BL/FW RO/YL in Poison Oak S of mulberry he was
consorting with his ♀ BL/FW OR/YL who was also with
an unmarked ♂. Found BL/FW OR/YL's nest in stinging
nettle again! 4 eggs warm. Bright sunny mild morning.

	1	2	3	4
L	19.52	20.01	19.94	19.24
W	16.53	16.08	16.11	15.87
wt	2.75g	3.00g	3.00g	2.75g
	Lightshell	Lightshell	Lightshell	Lightshell

24 May Saw fledgling FW/X BL/PK at E of end of Bachan
patch. Also spied his father BL/FW RO/YL and
mother in the patch as well as ♂ and ♀ BK/FW's
and PK/FW and YL/FW BK/PK!

Smith, J.
1989

Journal

97

Russell Tr. Res., 2 mi NW Lafayette, Contra Costa Co., Calif., 6300 ft.

24 May

Fam & nest of $\frac{GR}{FW}$ $\frac{OR}{BK}$ ♂ and ♀ $\frac{GR}{FW}$ $\frac{RD}{OR}$

4 warm eggs. 2' up in milk thistle. Nest seems quite loose.

	1	2	3	4
L	19.23	19.48	18.37	19.57
W	15.50	15.84	15.90	15.66
wt	2.50g	2.50g	2.50g	2.50g
remarks	light shell	medium/light	light	light

windy, sunny morning (cool) 45°

25 May

0700 hours spotted fledgling $\frac{FW}{H}$ $\frac{BK}{BK}$ in hawk near nest. Possibly both fledglings in nest are ♀ $\frac{BK}{FW}$ $\frac{OR}{H}$ went back to four eggs after the first co with her caught in the net for too long yesterday. I checked the nest yesterday at noon and she had let them get stone cold this am they are warm will add BL to number eggs to avoid transfer confusion. $\frac{FW}{H}$'s have nest with one nestling ~1 day and 2 unpipped eggs will switch there.

Flushed at

$\frac{BL}{FW}$ $\frac{OR}{H}$'s eggs

1 BL 2 BL 3 BL 4 BL

L	19.52	20.04	19.94	19.11
W	15.70	15.85	16.10	15.83
wt	Light/med 2.50g	2.50g light	2.50g light	2.50g light/med

Flushed at

$\frac{GR}{FW}$ $\frac{RD}{OR}$'s eggs 2

3

4

L	19.32	19.48	18.40	19.57
W	15.52	15.81	16.02	15.67
wt	2.50g	2.50g	2.50g	
remarks	med.	med/light	medium	med.

with 19
1989

Journal

98

25 May

Russell Tree Res. 2 mi NW Lafayette Contra Costa Co. Calif 1300 ft

PK/FW BK/RD ♀ eggs

5

6

L 20.13

20.25

W 15.37
29

16.06

wt 2.0g

2.50g

remarks heavy
pipped little
accident with pen

heavy shells are very fragile
may have cracked
with caliper pressure

all eggs into portable hot pack styrofoam carrier at 0843 hours
T = 31°C. Arrive Truckee 1226 hours Temperature of
portable incubator = 32°C. 1303 hours eggs removed
to transfer to nests T = 31.5°C.

Sagehen Field Station

1416 hours transfer complete. Egg 5 hatched en route

I put hatchling with cracked shell into nest. Hatchling was
begging for food. Time from portable incubator to nest was 1 hour

* Transfer #1

From Russell 2 eggs from PK/FW BK/RD ♀ and BL/BK ♂

were transferred to ~~the~~ Sagehen nest of YL/RD wh/FW ♂ and unmarked ♀
5 eggs in YL/RD wh/FW's nest labeled with a wh

1 wh

2 wh

3 wh

4 wh

5 wh

L

18.94

18.23

17.90

19.20

18.47

W

15.18

14.11

15.15

14.42

14.44

wt

1.75g

1.50g

2.00g

1.75g

1.75g

remarks

med/heavy

light

light

med/light
very different
markings much
more blue at
pt than others

med/heavy

th, 8

1989

Journal

99

Sagehen Creek Field Station

25 May * Transfer #2

From Russell 4 eggs from BL/FW OR/YL ♀ and unmarked ♂
to Sagehen RD OR FW BL ♂ and WH/OR ♀ for 4 eggs flushed ♀
Sagehen RD FW eggs are numbered and RD too

	1 RD	2 RD	3 RD	4 RD
L	18.83	18.56	19.40	18.66
W	15.13	15.42	15.65	15.49
wt	1.00g	1.00g	1.50g	0.50g
remarks	med/light	medium	medium	med/light

* Transfer #3

From Russell Four eggs of BR/FW OR/BK ♂ and RD/OR ♀ to Sagehen
BK/WH RD FW ♂ and OR/YL RD FW ♀ 4 eggs warm did not see ♀ heard ♂
Sagehen eggs marked 1-4 and R

	1 R	2 R	3 R	4 R
L	20.65	20.09	20.13	20.23
W	15.42	15.41	15.36	15.08
wt	2.50g	2.25g	2.25g	2.25g
remarks	med/light	medium	med/light	medium

At 1453 hours all sagehen eggs are in the incubator
set at 32°C with 1/2 cup of water in bottom left
corner for humidity.

Smith, J.
1989

Journal

100

Sagehen Creek field sta, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

25 May

4¹/₂ FW ^{BK}/_{BR} ♂ and ^{PK}/_{RD} ♀ 4 nestlings look like they hatched this

morning it is 15¹/₄ hours now sunny, little wind ~60°F.

	RT leg 1	left leg 2	RT wing 3	left wing 4
Belly length	2.37	2.38	2.28	2.22
eye length	2.40	2.59	2.24	2.23
width	2.60	2.25	2.12	2.16
wing length	7.15	6.26	6.51	5.46
tail length	not emerged	not emerged	not emerged	not emerged
tarsus	5.69	5.69	5.40	5.59
midt toe	7.68	7.90	7.24	7.17
hallux width	4.56	4.99	4.72	4.15
molt	downy	downy	downy	downy
age	day old	day old	day old	day old
fat	some belly, fore, armpits	same	same	mostly belly, little armpits, fore
cloaca	2.73 x 1.98	3.54 x 2.89	2.71 x 1.39	3.28 x 1.71
remarks	eyes not open	eyes not open	eyes not open	eyes not open
wt	3.0g	3.0g	2.50g	2.0g

4 nestlings set of ^{PK}/_{FW} ^{BK}/_{BR} and unmated ♀

Smith, J
1989

Journal

101

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co, Calif 96300

25 May

PK/FW BK
X X orl
100's nestlings

PK 20 RT
X X orl

left leg 2

rt
toes 3

left leg 4

Bill length

2.59

2.92

2.63

2.94

depth

2.30

2.70

2.67

2.84

width

2.19

2.59

2.65

2.83

wing length

8.63

7.74

8.64

9.11

tail length

0.35

not out

0.75

0.99

tarsus

7.08

7.04

7.70

8.20

mid toe

10.60

10.87

11.06

11.66

hallux to end

5.81

6.04

6.26

~~3.01~~ 5.99

wt

4.50g

5.0g

5.50g

1.85 5.0g

molt

outer 41°s just barely out
downy

outer 31°s just out
downy

downy
1st 71°s just out

very downy
1st 71°s out

age

2 day?

2 days

2-3 days

2-3

fat

some belly strand, fat, crop b some

same

same

claw

2.17 x 1.29

2.34 x 1.93

2.78 x 1.25

3.01 x 1.92

remarks

legs too small to band
eye barely slit

eye closed

eye closed

eye closed

Found nest of pair S of PK GR FW ♂ in low willow near stream's edge, I believe both ♂ and ♀ are unmarked.

4 eggs were cold but I had flushed the ♀ 20 minutes before.

1

2

3

4

L

19.39

18.68

19.20

19.37

W

14.35

14.79

14.66

14.62

wt

2.25g

2.0g

2.0g

2.0g

remarks

light/med

light

light

light

$$\begin{array}{r}
 153.28 \\
 153.28 \\
 \hline
 0656
 \end{array}$$

101, 8

1989

Journal

102

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft.

25 May collected nest of ♂ ^{GR}/_{PK} ^{GR}/_{FW} and unmarked ♀, there was egg #3 left in it only. NO signs of adults. #3: $L = 20.34$, $W = 15.88$
 $wt = 2.50$ g. Nest was 306.56 mm ϕ to the ground in the crotch of a willow. 104.87 mm = outer width, outer depth = 75.85 mm, inner width 69.78 mm, inner depth = ~45 mm
 Checked incubator at 1755 it was 33°C so turned down.
 Checked at 1910 30°C so turned up. 31°C = T at 1946.
 T = 30°C at 2130 hours turned up to 32°C.

26 May T = 31.5°C of incubator. 0719 hours ~~at~~ egg #6 is just hatching in ^{why}/_{FW}'s nest
 stage 5 6

Bill length	2.42	too young to measure
depth	2.12	
width	1.89	
Wing length	6.92	
tail length	not out	
tarsus	6.03	
mid toe	7.64	
hallux length	4.19	
nostril	downy	
fat	belly & around some, not much else	
CLM	1.96 x 1.46	
wt	2.0 g	
remarks		
age	eye not open 1 day	

Banded ♀ ^{BL}/_{BR} ^{why}/_{FW} 2031-08954. At 0850 hours

incubator T = 32.0°C. 1000 hours Sagehen egg in portable incubator T = 31.8°C

Smith, J
1985

Journal

183

Russell Lake Reservation 2 mi NW Lafayette Contra Costa Co. Calif. 1300 ft.

26 May

As soon as I took styrofoam incubator outside the T dropped to 27°C, but in 30 minutes it was up to 30°C and when I reached Russell at 1409 hours T = 31°C. Transfer complete at 1429 hours. Flushed off BL/FW^{OR}/YL and GR/FWRD/OR but did not see PK/FW BK/RA. GR/FW ♀ had eliminated 1 house sparrow egg leaving 3. PK/FW had also eliminated 1 house sparrow egg leaving 1 and her nestling. BL/FW ♀ was sitting on 4 house sparrow eggs (warm). I collected PK/FW's 1-2 day old nestling ^(J15132) and left 5 eggs!

27 May

Observing FW/BL's area looking for fledglings, heard ♂ ad. ♀. ♀ is acting like she is on eggs. Set out seed for ~~last~~ but saw Brown Towhee feeding on it. Checked transfer nests. All are doing fine. Flushed BL/FW^{OR}/YL off 4 warm eggs. Flushed PK/FW BK/RA off 4 warm eggs, one was missing did not want to take extra time to see which egg. Flushed GR/FWRD/OR off 4 warm eggs. Found the missing house sparrow egg lying on a milk thistle leaf it could have fallen out of nest and landed there w/o ♀ pushing it out. Saw lots of activity at FW/BL's looking like numerous fledglings, ♀ quite obvious perhaps feeding nestlings. Observing FW/GR at cattail pond, he was calling with ♀. Could not see bands for positive id because I forgot my binoculars today. The 20 eggs from sagehen are quite bottom heavy, perhaps chick is positioned at one end getting ready to hatch. At heron patch N of mulberry looked like FW was still singing but not attached.



with, J

1989

Journal

104

Russell Tree Res. 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft.

29 May Recorded vocalizations and found 2nd nest of FW/BL ^{PK} / ^{TR} ^Y
ad FW/BL ^Y / ^{OR} ♀. 4 warm eggs

	1	2	3	4
L	19.13	19.38	18.39	18.63
W	15.47	15.04	14.96	14.99
wt	2.00g	light/med	2.00g	2.00g
remarks	light/med	2.00g	Light	med/light

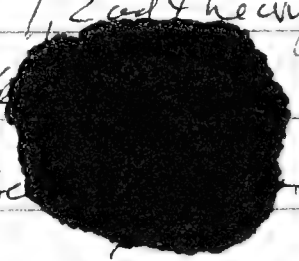
Nest is $\leftarrow 4\frac{1}{2}$ ft up in a Pine tree crotch. Flushed

♀. Windy, cold ~ 50°F and sunny. Nest is even with the

top of my belly button. 0910 hours transfer nest @ Cuck

Flushed ♀ BL/FW ^{PK} / ^Y off of 4 warm eggs shells looking heavy.

Heard ♀ BL/FW ^{PK} / ^{OR} chirp at 4 warm eggs 1, 2 and 4 heavy,

3 is medium. Did not see or hear BL/FW ^{PK} / ^Y  ^{PK} / ^{BL} ^{OR} ^Y

Her 4 eggs (#5 is missing) were cool at nest cup for 

cool. Saw her BL/RO at 0955 hours came up 20' W of

nest she and male called.

31 May Checked nest of BL/FW ^{PK} / ^{OR} at 1117 hours 2 hatched
young egg #3 still looks medium, #4 is heavy. They look
like they hatched yesterday. Flushed ♀? @ nest

colony off by .03

1 R+leg

2 left leg

Bill length 2.30
depth 2.47
width 2.28

Tail length not out

Tarsus 4.87

Mid toe 6.93

hallux + claw 4.25

Cloaca 2.40 x 1.89

Fat belly, arms some

molt downy

net 1.75g

wings length 5.78

remarks eyes closed

2.36

2.37

2.33

not out

4.71

7.39

4.11

3.21 x 2.66

same

2.00g

6.29

eyes closed

11

12

Smith, J
1989

Journal

105

~~Russell-Jensen Rd, 2 mi. NW Lafayette, Contra Costa Co., Calif., 1300 ft~~

31 May

Nest check of ^{PK}/_{FW} ^{BK}/_{RD} ♀ Four lute warm eggs, nest
cup felt warm, heard adult. sip. Eggs 1, 2 are
heavy and 3 is med/heavy and 4 is medium.

Nest check of ^{BL}/_{FW} ^{OR}/_{YL} ♀ 4 warm eggs all heavy shell,
but feel hollow and lop-sided.

1 June

Nest check ^{BL}/_{FW} ^{OR}/_{YL} ♀, 4 warm eggs, heavy shells. ^{PK}/_{FW}'s

Nest empty saw ♀ rear nest. ^{GR}/_{FW}'s nest 2 nestlings and 1 egg (#3)

both parents seen, ♀ finished off nest 0749 hours

Birds	1st leg	2nd leg
Bill length	2.46	2.61
depth	2.15	2.08
width	2.11	1.84
^{wing} head length	7.56	6.70
tail length	—	—
tarsus	5.54	5.48
mid toe	7.70	7.73
hallux w/ claw	4.07	4.46
molt	downy	downy, feathers trunk apparent on back
fat	Much belly and arms	same
chore	2.05 + 1.46	2.74 + 2.05
wt	2.50g	2.50g
remarks	eyes closed	eyes closed

Saw ^{YL}/_{FW} ^{BK}/_{PK} with unmarked ♀ at W end of
reddish patch S of metal pole ~ 10' in from
road. ♀ was carrying dead grass and going
down into thistle "falty" to ♂.

Smith, J
1987

Journal

106

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co, Calif 96044

1 June

Nest check of RD/FW^{wh} or ♀ ad $\frac{RD}{FW}$ $\frac{OR}{BL}$ ♂
Eggs 1, 2 - medium, 3 - med/light
and 4 is heavy. They were warm but
I did not see the adults.

Nest check of ♀ unmarked S of $\frac{PK}{BL}$ $\frac{GR}{FW}$
in low willow near stream 4 warm eggs
with heavy shells. Flushed ♀.

Nest check of BK/wh $\frac{RD}{FW}$ ♂ ad $\frac{OR}{YL}$ $\frac{RD}{FW}$ ♀
1: 3-4 are med/heavy and 2 is heavy, flushed
♀ off warm eggs.

Nest check at $\frac{BL}{FW}$ $\frac{GR}{OR}$ ♀ ad $\frac{BL}{FW}$ $\frac{PK}{BL}$ ♂
2 large nestlings no sign of other egg. Female
flushed off. Nestlings banded $\frac{BL}{FW}$ $\frac{YL}{BK}$
ad $\frac{BL}{FW}$ $\frac{RD}{wh}$

Nest check at $\frac{YL}{RD}$ $\frac{wh}{FW}$ ♂ ad $\frac{BL}{BK}$ $\frac{wh}{FW}$ ♀, only one
nestling, cannot see any marks of color on
tarsi, no sign of other. Banded $\frac{GR}{PK}$ $\frac{X}{FW}$

Nest check at $\frac{YL}{FW}$ $\frac{BK}{GR}$ ♂ ad $\frac{PK}{RD}$ ♀, 4
well-feathered nestlings banded.

Nest check at $\frac{FW}{BL}$ $\frac{RD}{OR}$ ♂ ad $\frac{FW}{BL}$ $\frac{YL}{OR}$ ♀ only
one nestling no sign of 2 other eggs or fledglings.
Banded 2031-08962 left ad $\frac{GR}{OR}$ $\frac{YL}{FW}$.

Cought unbanded ♀ S of $\frac{PK}{BL}$ $\frac{GR}{FW}$ ♂ banded
her 2031-08963 $\frac{YL}{wh}$ $\frac{OR}{FW}$

2 June

Collected $\frac{YL}{FW}$ family as control ad banded ♂
 $\frac{YL}{FW}$ $\frac{PK}{OR}$ That came into house ♀ after I
had netted ♂.

with 19

found

107

189

Sagehen Creek Field Station 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft

2 June

Nest checked at ^{wh}/FW ~~at~~ leg.

1 nestling FW (#2031-08957) left leg and GR/PK 1 ft.
both adults chipping.

Bill length 4.22

length 3.54

width 2.90

wing length 25.40

tail length 2.10

tarsus 17.19

mid toe 18.35

hallux claw

fat much fat, some stored

wt 14.08

noft 3rd 10 not out

back $\frac{2.56}{5.71}$

belly $\frac{1.05}{7.09}$

remarks ♀ flushed off as I approached

does not seem as robust as Sagehen nestlings

Nest checked at FW/GR RD/OR ♂ and B/Y/L ♀

one nestling Banded 2031-08962 seen 14 leg

Bill length 4.66

length 3.91

width 3.76

wing length 29.06

tail length 4.03

tarsus 16.28

mid toe 20.47

hallux w claw 11.24

fat some fat, 1, h + am

wt 16.00g

noft 10 3rd $\frac{0.62}{19.65}$

back $\frac{7.97}{10.32}$

belly $\frac{6.47}{10.90}$

remarks

Nest checked at Transf ^{#3} checked ^{OR} RD/FW ♀

one hatching from egg #1, painted 14 leg Black

wt = 1.75g. Eggs 2-4 are warm and heavy.

with 18

1989

Journal

108

Sagehen Creek Field Station

2 June

~~Bill length~~
width

~~Bill length~~

Nest checked at BYCW's, ♂ chirping 1435 hours
2031-08955 2031-08956

Bill length

3.94

4.42

depth

3.33

3.31

width

3.58

3.56

wing length

27.40

29.52

tail length

3.25

3.42

tarsus

15.55

16.72

middle toe

19.49

20.69

culmen/depth

11.01

11.46

fat

much fat, some cream

Much fat, some sternum

wt

14.06

15.5

molt

31° not out, back $\frac{2.92}{7.36}$, belly $\frac{2.71}{5.55}$; Bird 10 $\frac{0.57}{16.88}$, back $\frac{4.52}{8.11}$, belly $\frac{4.78}{9.54}$

remarks

claw

3.81 x 1.76

4.22 x 2.67

Nest checked at 4/11/89, 5 eggs, new size
looked like combined, A took it and left 4 heavy
warm eggs.

Nest checked at 10/11/89 4 warm eggs all heavy
except #3 (medium)

Sta, J
1989

Journal

109

Sagehen Creek Field Station, 3 mi NW Hobartville, Nevada Co. (alt. 6300 ft)

3 June Nest check at transfer nest #3, ^{on} ^{the} ~~at~~ ^{FWP}

3 nestlings, one egg unhatched #2 (med/heavy)

10/10 hours

1st leg

2 left leg

3 both legs

Bill length	2.26	2.17	2.46
-------------	------	------	------

depth	2.39	2.54	2.28
-------	------	------	------

width	2.23	2.12	2.35
-------	------	------	------

wing length	6.13	5.48	6.24
-------------	------	------	------

tail length	not out	not out	—
-------------	---------	---------	---

tarsus	4.91	5.34	5.03
--------	------	------	------

mid toe	6.94	6.85	7.21
---------	------	------	------

hallux	4.46	3.75	4.45
--------	------	------	------

molt	downy	downy	downy
------	-------	-------	-------

fat	much, belly gone	same	much arms and belly
-----	------------------	------	---------------------

wt	2.0g	2.0g	2.0g
----	------	------	------

remarks	eyes closed	eyes closed	eyes closed
---------	-------------	-------------	-------------

age	1 day	0 day	0 day
-----	-------	-------	-------

Nest checked 6¹/FWP

2031-08955

56

Bill length

depth

width

wing length

tail length

tarsus

mid toe

hallux

wt

14.50g

16.0

stimulated to rain
aborted
meaning

1985

Journal

110

Sagehen Field Station 3 mi. NW Hobart Mills, W. Nevada, July 6300 ft

3 June

Saw ^{FW/BK} ^{GL} ♂ with unmarked ♀ carrying food. Marked area where I thought the nest was. Saw ^{GL/FW} ^{OR} ♂ w/ unmarked ♀ acting like on eggs.

4 June

collected Trump #1 chick, could not get adults - nest chick at 'B4/FW',

2031-08955

2031-08956

Bill length

4.20

4.90

Depth

3.74

3.83

width

3.23

3.64

Wing length

35.17

35.48

tail length

7.15

7.36

Tarsus

16.96

17.11

mid toe

19.53

21.45

hacking w/ skin

11.59

13.23

wt

15.08

16.09

weight

Brill ^{3.26} 24.53, back ^{6.44} 12.96, belly ^{9.91} 9.00

^{3.61} 25.45, ^{9.32} 15.65, ^{4.94} 9.72

fat

slight fat

much fat, some belly and sternum

Remarks

eyes open

eyes open

claws

5.33 x 2.25

4.55 x 3.97



1

Smith, J.
1989

Journal

117

~~Sagehen Creek Field Station, 3 mi NW Hobartville, Nevada Co., Calif 6300~~

4 June	Nest check at Transfer #3 ^{or} RD _{FW} , 4 nestlings			
	1st lg	2 legs	3 both	4 none
Bill length	2.58	2.70	2.55	2.13
depth	2.49	2.43	2.41	2.11
width	2.60	2.32	2.51	2.02
wing length	7.43	6.81	6.92	4.83
tail length	Not out	-	-	-
tarsus	6.07	5.83	5.69	4.31
mid toe	9.01	8.36	8.21	5.89
hallmark	4.71	4.70	4.87	3.64
wt	3.50 g	3.0 g	3.0 g	1.50 g
closure	3.05 x 1.64	3.30 x 1.67	1.70 x 1.13	2.75 x 0.92
remarks	eyes slit, not open	8 same	8 same	eyes not open
fat	same	← wing, belly med	same	arms same

nest cup felt very wet (it had rained for 4 hours

This morning but adult was sipping.

Nest check at ^{FW} ^{or} RD _{FW} ♀, 4 wet eggs but I flushed
off female. Nest check at RD _{FW} transfer #2
3 wet eggs with puddle of water. I left them but
heard a lot of sipping, who knows?

Yesterday found nest of 2 unmarked indivs just where

I cross over Sagehen at Beaver dam, flagged 4 warm eggs.

Too overcast to candle the eggs. The ⁶ _{FW} nest was

empty, no sign of fledging or adults.

Smith, J

Sonal

112

1989

Russell Yucca 2 mi. NW Lafayette, Contra Costa Co., Calif. 6300ft

4 June

Next check of Transfer #3, 2 bulgybellied youngsters
 mom sitting on even when I got w/in 3'. No egg (#3)
 seen. 1816 hours

	1 Rt leg	2 left leg
Bill length	3.48	3.48
depth	2.82	3.08
width	2.82	3.13
wing length	15.68	14.66
tail length	not out	=
tail vs	12.09	10.98
mid toe	15.52	13.61
heel length	8.74	9.03
not	Back $\frac{0}{4.21}$, Back, Belly	$\frac{0}{2.95}$ T. 61 0.92
fat	Much force	Much force at base of snout,
claw	3.24 x 2.03	4.22 x 2.44
wt	9.50g	11.0g
Remarks	eyes slit but closed	eyes slit open entirely
Banded	left leg not RD	left leg green

(1, 2)
 Nest check at Transfer #2 BL/FW, 2 eggs have shell
 removed from $\frac{1}{4}^2$ at tip (small end), #4 sand
 like bean (hard) is jiggling inside, #3 is OK.

6 June

Nest check at Transfer #2 BL/FW the pipped eggs look
 all dried out, I'm taking one in to RES for
 consultation. ♂ and ♀ still vigilant and eggs
 still warm.

Smith, J
1989

Journal

113

Remond Jackson, 2 mi NW Lafayette, Contra Costa Co., Calif 1300 ft

6 June Nest check at transfer #3, 2 warm nestlings
Both adults chirping 1151 hours

RD left by

GR left by

Bill length	4.22	4.59
Depth	3.55	3.44
width	3.51	3.45
wing length	24.03	22.06
tail length	1.92 not measured	1.55
tar sum	15.37	14.33
mid toe	18.02	17.93
hallux width	11.67	11.21
molt	3rd 10 ⁰ $\frac{1.56}{12.30}$, $\frac{5.52}{3.18}$ back, belly - $\frac{6.13}{1.42}$	$\frac{0}{11.52}$, $\frac{1.84}{6.26}$, $\frac{1.42}{3.99}$
feet	much fatter, some shoulders	same
claw	2.88 x 1.76	3.74 x 2.05
wt	12.50 g	13.50 g
remarks	eyes completely open but droopy	same

Nest check at FW/BL ¹⁰ for ♀, 4 cold eggs both parents sleeping though, all eggs (-4) were light/med. No much progress since 29 May. The eggs had that top-sided feel (top heavy) to them like the Transfer #2 eggs in BL/FW's nest.

8 June Nest check at Transfer #2 female still keeping warm left in 2 uncracked eggs. Took egg #1 of RD embryo was evident ~ 4.5mm long. Shell thickness = .22
Check of Transfer #3, nest on ground ♂ was chirping, ♀ unseen but heard her (?). No sign of young yet from parents behavior they may still be in the thicket. Nest check at FW/BL 4 cold eggs no sign of ♀ or ♂ or their fledglings.

with, J
1989

Journal

114

Russell Tree Res. 2mi NW Lafayette, Contra Costa Co. Calif. 1340 ft

9 June

0807 hours found what I believe to be the nest of
Y/FW BK/PK ♂ and unmarked ♀, I have although seen
♀ followed by unmarked ♂ I thought was with B/FW ♀.
3 warm eggs, positioned in a nest in milk thistle
about waist height. I will not mark eggs for fear
I have been puncturing them with the pen

	1	2	3
L	20.27	19.98	19.35
w	15.94	15.56	15.12
wt	2.50g	2.50g	2.00g
	med/light	med	med

2 cool eggs in BL/FW transfer #2. Both heavy. Saw
fledgling FW/x BL/PK in Harlock patch of nest. Saw GR/FW BK
♂ calling from Thistles near trashet nest.

Bait trapped fledgling 1451-1452 ~~PK/BK~~ from PK/FW BL/BK ♂ and RD/BK ♀.

This fledgling was really youngster of FW/BL's

At ~~last~~ pond saw OR/FW BL/RD with unmarked ♀. ♀ was

chirping near the NW corner in the ratchin' ~~was~~ ♂ was sitting on
W side in Ruddy.

Nest of OR/FW BL/RD ♂ and unmarked ♀ is on W side of road in fuller Bachais
well concealed by leafed branches. 4 warm eggs, unmarked

	1	2	3	4
L	20.21	20.19	19.77	19.52
w	15.36	15.55	15.38	15.43
wt	2.50	2.50g	2.50g	2.50g
remarks	med	light/med	med	med

Smith, J
1989

Journal

115

Russell Lake Res., 2 mi NW Lafayette, Contra Costa Co., Calif 1300ft

9 June Nest check at FW/BL's - no sign of any Song Sparrows, 4 cold eggs.

10 June 4 warm eggs (flushed unmarked ♀) of ^{OR}/FW ^{BL}/RD into Styrofoam incubator $T = 30^{\circ}\text{C}$ time = 10/14 hours, put dog away around nest and put in 4 cold House Sparrow eggs. Moved hot packs around $T = 33.5^{\circ}\text{C}$ at 1020 hrs.

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

10 June Arrive Sagehen 4:30 pm to see traffic jam at Donner. Nest check at transplant #3 only one wing (nestly - 7 days old) in nest, ♂ heard calling near nest no other signs. 4 big chicks at X ^{OR}/FW's nest and 4 nestlings at unmarked pair E of ^{OR}/FW w/ 11 banded with FW nest and 11 on left. Not big enough for FW so just YL

	YL	YL	RD	YL	BL	YL	GR	YL
Bill length	3.67		3.57		3.81		3.83	
depth	2.99		2.85		3.45		3.27	
width	3.05		3.20		3.53		3.26	
Wing length	15.63		18.82		15.77		14.02	
tail length	not out		-		-		-	
tarsus	12.01		12.37		11.34		11.06	
midtars	17.30		17.87		18.39		17.11	
hail w/claw	10.24		9.75		9.78		8.96	
molt	3rd 1 st $\frac{0}{5.14}$, $\frac{0}{1.79}$, $\frac{0}{1.97}$		$\frac{0}{6.42}$, $\frac{0}{1.77}$, $\frac{0}{2.07}$		$\frac{0}{4.46}$, $\frac{0}{1.62}$, $\frac{0}{2.36}$		$\frac{0}{3.69}$, $\frac{0}{0.84}$, $\frac{0}{0}$	
fat	much fat, some belly		same		same		much fat, some along belly	
wt	11.0 g		12.50 g		11.00 g		10.50 g	
Remarks	yes slit not open		yes slit, open slightly in anterior		same		same	

1989

Journal

116

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif. 6300ft

10 June 1847 hours finally got incubator working (I remember to unscrew the top springs). It is now dry bulb 90°F = 33°C and wet bulb 74°F so relative humidity is 47%

put eggs in styrofoam war 32°C. 1023 hours

Dry bulb 89°F and wet bulb 75°F making relative humidity 52%

11 June 0529 hours Dry T = 87°F wet = 65°F, rel humidity = 30%

0606 hours Dry bulb T = 90°F wet bulb = 74°F rel humidity = 47%

1020 hours Dry Bulb T = 90°F, wet bulb 74°F rel H = 47%

I flipped the egg over. 1610 hours caught the eggs at dry bulb 98°F and wet 85°F making rel H = 70%. Sun had come thru window and heated up incubator ~30 minutes. Eggs feel limp.

Replaced in incubator 1700 hours dry bulb 90°F wet = 75°F rel humidity = 50% $\frac{14}{24} \frac{100}{100}$

Banded young at ~~1600~~ ¹⁶⁰⁰ for ♀'s nest 4 young - all have at least one FW. 2011 hours incubator dry bulb 90°F, wet = 76°F rel H = 53%. 2138 hours holding steady at 90°F dry, 76°F wet 53% rel. H.

12 June 0916 hours dry bulb = 91°F, wet bulb = 73°F, rel humidity = 43%

0938 hours found 2nd nest of ^{BL/BK} ^{WH}/FW 3 were warm eggs

1

2

3

L

18.66

18.76

19.38

W

14.83

15.05

15.16

wt

2.00g

2.00g

2.00g

remarks

light

light/med

light/med

nest is at base of lodgepole pine just SW of foot bridge.

17th, 8
1989

Journal

117

Sagehen Creek Field Sta, 3mi NW Hobart Mills, Nevada Co, Calif 6300ft

12 June

Transfer #4 4 eggs (measured 9 June #1-4 post-measure)
there are eggs of ^{2nd nest} $0\frac{1}{2}$ FW $B\frac{1}{2}$ EN δ of Russell, were transplanted
to nest of PK/FW BK/OR δ marked ϕ . Their 4 eggs
are #1-4 (painted not pinned) 0930 hours

	2	1	3	4
L	19.66	19.24	18.98	18.38
W	15.88	16.00	15.99	16.61
wt	2.50g	2.50g	2.50g	2.50g
remarks	Med/light	light	med/light	oblong, light shell
2nd nest just 10ft S of 1st nest in same willow clump 6" off ground in notch of willow				

Transfer #5 Incomplete only to Russell $4\frac{1}{2}$ FW BK/OR δ
From Sagehen 4 eggs of $6R/PK$ $6\frac{1}{2}$ FW δ at unmarked ϕ
2nd nest is 10ft S of 1st nest 12" off ground in notch of willow

	#5	#6	#7	#8
L	20.77	20.90	21.12	21.29
W	16.10	15.79	16.30	15.54
wt	2.50g	2.50g	2.50g	2.25g
remarks	heavy	heavy	heavy	med/heavy

Into styrofoam 1034 hours $T=33^{\circ}C$, At 1447 Arrive at

Russell Inc Res. 2mi NW Lafayette, Contra Costa Co, Calif 1300ft

12 June Styrofoam $T=32^{\circ}C$. Transfer #4 to $0\frac{1}{2}$ FW complete - 1452

Flushed ϕ off Home Sparrow eggs and replaced with
 $1\frac{1}{2}$ FW's eggs 1-4. Transfer #5 complete flushed ϕ unmarked ϕ

	1	2	3	put her in $B\frac{1}{2}$ FW's
L	20.31	19.93	19.35	nest remained unharmed
W	15.88	15.63	15.10	transplanted eggs 3 & 4.
wt	2.50g	2.50g	2.00g	Did not hear or see ϕ
remarks	heavy	heavy	med/heavy	Both eggs cool.

1

2

3

4

5

ith, 9

1939

Journal

118

Russell Tree Res. 2 mi. NW Lafayette, Contra Costa Co., Calif. 1300 ft.

15 June

0708 hours, nest check at $\text{b}^{\text{L}}/\text{FW}$ or Y^{L} sitting on $\text{Y}^{\text{L}}/\text{FW}$'s ♂
3 eggs (transfer). The eggs are cold and nest is moist. Heard
no sipping. I think they were abandoned. Saw FW/Red back
in Bacharis S of PK/FW or BK . Also saw unmarked bird in
S end of PK/FW 's hemlock.

Nest check at transfer #5, empty nest! No sign of
either adult 0925 hours. Caught unmarked fledgling in
faded trap in small turtle patch just across the
road (E 10') from willow. It may be 1st fledgling of
 $\text{b}^{\text{L}}/\text{FW}$'s (it is J15147).

With FW/RB there were at least 2 unmarked fledglings in
Bacharis S of PK/FW .

16 June

Collected old nest of $\text{Y}^{\text{L}}/\text{FW}$ (J15122 + 123) it was
mod high height off the ground in a Berry Bramble

17 June

Found 3rd nest of $\text{b}^{\text{L}}/\text{FW}$ or Y^{L} ♀ it is on E edge of willow
clump ~5' N of her 1st nest. 4 warm eggs

	1	2	3	4
L	20.55	18.77	19.56	19.39
W	15.63	16.30	15.52	16.01
wt	2.50	2.508	2.508	2.508
remarks	light	light/med	light	light/med

Dropped away and ~~flushed~~ nest, The nest is 1' W
of a tall red plant in some blackberry ~1 1/2' off
ground.

Nest check at Transfer #4, flushed ♀ off 4
warm eggs - #3 is heavy shell (did not crack
the nest) put down egg avg.

muta. g

1989

Journal

119

Russell Lake Res. 2 mi NW Lafayette, Contra Costa Co., Calif 1300 ft.

17 June Checked the territory of unmarked ♂ at E end of Russell Road (turn around circle). Looks like fledglings (at least 2).

18 June Found X ^{FW}/_{PK} with a family, at least 2 fledglings still being fed. Saw what looked like unmarked ♀ carrying winged insects. Lots of happy buzzing but very little chirping. The family is in a draw on the S side of road 40 yds from edge of road. Lots of PD; bay tree (30') and live oak 25' high. ^{FW}/_{OR} ^{WK}/_{PK} ♂ has moved 2 over the hill to the draw so sharp-shin where ^{FW}/_{PK}'s used to be.

19 June In Bacharis S of ^{PK}/_{FW} ^{BL}/_{PK}'s territory I saw FW ^{BL}/_{PK} fledgling from Marbury bush in very close contact with FW ^{PK}/_{PK} fledgling. In the same area I saw ♂ ^{PK}/_{PK} and his long lost ♀ ^{PK}/_{FW} ^{WK}/_{OR}!

21 June Nest check at ^{BL}/_{FW}, all 4 eggs gone! Heard singing, put in Y House Sparrow Eggs in hopes they might return. Nest check at Tranfer #1 4 warm eggs, heavy.

Sagehen Creek Field Station, 3 mi NW Hotant Mill, Nevada Co., Calif 6300 ft

21 June 1800 hours, nest check at Tranfer #1, flushed unmarked ♀. Eggs have not hatched, are warm. I broke #3(?) it was smelly, no sign of embryo. Nest check at ^{BL}/_{PK} ^{WK}/_{FW} warm eggs (heavy) flushed ♀. Found 2nd nest of ^{FW}/_{PK} ^{PK}/_{OR} and ^{WK}/_{OR} ^{BL}/_{PK}, 4 warm eggs flushed ♀ out of 1 1/2' hollow nest 6" off marshy bottom.

Smith, J

1989

Journal

120

Sagehen Creek Field Station, 3 mi NW Hobart Mills Nevada Co. Calif 96300

21 June

4 eggs of BW/BL's

1

2

3

4

L

19.18

19.84

18.06

19.01

W

15.36

15.77

15.23

15.49

wt

heavy 2.0g

2.00g

1.50g

2.50g

remarks

cracked w/
culicid

heavy

heavy

heavy

one by hole

2nd nest is 20 yds W of 1st. almost in a straight line
 2nd nest for BW/BL's in scrubby willow patch
 15 yds SW of 1st nest, 4 warm eggs, flushed ♀.

1

2

3

4

L

21.19

20.24

20.91

20.13

W

15.72

15.28

15.20

15.34

wt

2.50g

2.50g

2.50g

2.50g

remarks

too dark to candle. Saw ♂(?) BW/BL PL/BL

22 June

2nd nest of PL/BL wh for ♀ and PL/BL ♂ 45 yds SW
 of 1st in willow - 2' off ground, 3 warm eggs, 1 downy
 (white) young

1

2

3

REBEG

L

18.49

18.43

18.46

L

15.64

15.46

15.62

wt

1.50g

1.50g

2.00g

3.00g

remarks

heavy

heavy

heavy pipped

very cold this morning people may be off

Smith, J
1989

Journal

121

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif. 6300ft

22 June

Found 2nd nest of BK/wh Ad/fw ♂ and OR/Hk RD/fw ♀

Two new eggs, flushed ♀ 15 yds S of 1st
dore to edge of creek 5' from edge of creek.

1 2 3 4

L

21.19

20.89

21.39

21.33

W

15.71

15.30

15.49

15.33

wt

2.00g

2.50g

2.50g

2.50

remarks

med

med

med/light

med

Found OR/Hk BK/fw ♂ & ♀ building 5' N of 1st nest
Collect w/air pop. trapped ~~nest~~ fledgling at
BK/fw's

Russell Tr. Res., 2 mi NW Lafayette Contra Costa Co., Calif 1300ft

25 June

Checked Transect #5, ants all over nest, 2
eggs pipped saved egg #2 (only 3 eggs total.)
The chicks inside the eggs had well-developed
bills hard to say what happened. Saw ♀ ad ♂
near fence on side of road opposite to the 2nd nest.

26 June

Looked for X BK/fw 2nd nest ♀ was not on eggs
she would call (clump) about every 10 minutes
like she was with nestlings but was not coming
up from a consistent spot.

26 June

0640 hours it is very quiet. Saw at E most
end of road. Bewick's Wrens at Tonhees.

BK/fw ♂ (?) I think is singing. I have not seen with
♂ or ♀ for sure. No sign of fledging.

th, 9
1989

Journal

122

Sagehen Creek Field Sta, 3mi NW Hobart Mills, Nevada Co. Cal. (3000ft)

8 July

5 added 2 young at nest of BK/WH RD/FW ♂
and OR/YL RD/FW.

9 July

Transferred 5 eggs from RD/FW OR/BL ♂ and RD/FW WH/OR ♀ to
BL/FW GR/OR ♀ and BL/FW PK/BL ♂. There are both 3rd nests

RD eggs: unmarked to avoid pipping Teepee around nest

	1	2	3	4	5 cowbird
L	18.84	19.00	18.39	18.73	saved
W	15.71	15.56	15.36	15.76	for later
wt	2.04g	2.50	2.00g	2.05g	use
remarks	heavy	heavy	heavy	heavy	

RD's 2nd nest had only 2 unhatched eggs in it, no sign of
fledgling

BL eggs: unmarked put teepee around the nest

	1	2	3	4
L	20.80	21.66	20.59	cowbird
W	15.84	15.63	15.76	
wt	2.50g	2.50g	2.50g	
remarks	very light	very light	light	

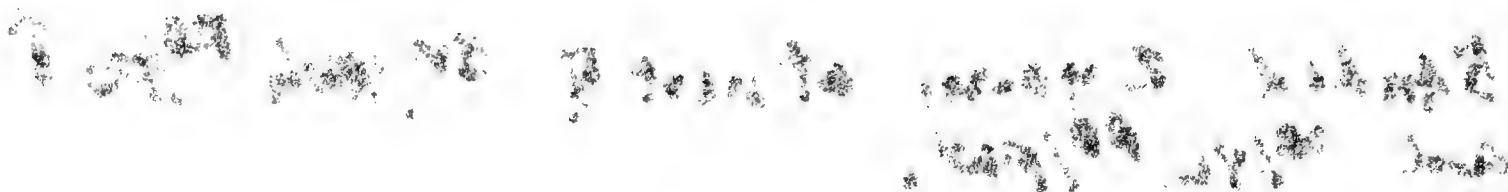
10 July

checked RD/FW ♀ was on with teepee so was FW/OR's ♀ in
car on young. BL/FW ♀ was nowhere to be seen and eggs were
stone cold.

Found nest of FW/PK WH/OR with 2 eggs to transfer to FW/OR WH/PK eggs

I put a screen Teepee around FW/PK's and put FW/OR's in a coffee can
with netting on top making a Δ in the center.

	1	2	3
L	18.6g	20.78	added an Old House sparrow egg to
W	15.00	15.68	complete clutch for transfer
wt	2.00g	2.00g	
remarks	med/heavy	heavy	



2

Smith, J

1985

Journal

123

Sagehen Creek Field Station, 3mi NW Hobart Hills, Nevada Co, Calif 6300ft

10 July FW/OR's four eggs

	1	2	3	4
L	19.95	19.47	19.54	18.93
W	15.52	14.41	15.08	14.73
wt	2.50g	2.0g	2.0g	2.00g
remarks	heavy	heavy		

Russell Lake Res. 2mi NW Lafayette, Contra Costa Co, Calif 1300ft

14 July Collected FW/OR ♂ saw no sign of mate or fledgling
he is molting heavily. He is JIS 150

16 July Collected OR/FW BL ♂ 2031-089512 Fledgling of GR/FW but reared by OR/FW.

18 July Sagehen Creek Field Sta. 3mi NW Hobart Hills, Nevada Co, Calif 6300ft

Nest check at FW/OR 3 abandoned eggs; no singing heard ♂ call infrequently did not see ♀. The Teepee had not been tampered with. Nest check at FW/OR's coffee can only had empty nest. No sign of ♀ or young may have heard ♂ once or twice. Nest check at FW/OR, flushed ♀ off of 4 eggs, heard ♂ sing. Nest check at FW/OR's heard ♂ sing, no sign of ♀.

19 July Egg switch between FW/OR WH/OR ♂ and FW/OR GR/OR both ♀'s unmated. Put nests in coffee cans with initially no mesh. This is FW/OR's 3rd nest and at least 2nd for FW/OR.

with 19

1989

Ground

124

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 96049

19 July

3 eggs of FW/BK for transfer (left unmarked)

1

2

3

L

21.46

21.16

22.25

W

15.49

15.68

15.50

WT

2.50g

2.0g

remarks

med

med

very light

3 eggs of FW/OR for transfer (left unmarked)

1

2

3

L

19.32

19.24

19.27

W

14.73

14.66

14.31

WT

med/hoary

med

med/hoary

remarks

2.0g

2.0g

2.0g

20 July

Nest check of FW/PK 46/62 ♂ with unmarked ♀, left only one broken at added egg, ♀ and ♂ still in area, teepee still in one piece. Nest check at FW/OR WH/PK, ♀ not on egg but both ♂ and ♀ cackling near nest. ♀ appears to go to the car and then dash off, inside of car window at 0827 hours. Temperatures at mid-day have approached 90°F, I believe the eggs will be in the coffee cans during the time it takes the ♀ to habituate.

Found nest of (at least 2nd since fledglings are in the area) WH/FW PK/RD ♂ and unmarked ♀, did not fiddle with nest. Eggs cool but ♀ in area chirping

1

2

3

L

22.49

21.86

21.05

W

15.80

15.82

15.69

WT

2.75g
~~2.75g~~

2.50g

2.50

remarks

med

med/light

med

Smith, J

1989

Journal

125

Russell Lake Area, 2mi NW Lafayette, Contra Costa Co, Calif 1300ft

23 July Banded adult, caught in Humlock patch (small)
just south of large milk Thistle, Y^L/FW BL/Y^L 2031-0897E
Caught unbanded fledgling near Mulberry
banded 2031-08971 FW/Y^L GB/Y^L

Sagehen Creek Field Station, 3mi NW Hobart Mills, Nevada Co, Calif 6300ft

28 July Collected fledgling 2031-08990 left + red right.
Nest check at FW/OR WH/PK one nestling 2 unpipped eggs.
One of the eggs was out of nest in can so I put
it back in. Nestling is ~ 2 days old rt leg black

Bill length 2.30

Length 2.62

width ~~3.20~~ 2.38

wing length 6.72

tail length not out

Tarsus 5.15

Mid toe 7.54

hallux w/ claw 4.34

wt. 2.50

new m/f's seems listless

Nest check at WH/PK FW/RO ♂, 3 warm eggs no sign of adults, eggs
all heavy shell.

Russell Lake Area, 2mi NW Lafayette, Contra Costa Co, Calif, 1300ft

1 Aug Banded FW/BK BL/GR 2031-08974, in bait trap in thistle patch

3 Aug Caught 1431-14519 in bait in thistles. This is nestling of
 PK/FW reared by BL/FW (JIS 150)

with g

1939

Journal

126

Sagehen Creek Field Station, 3 mi W of Hawthorn Mills Nevada Co. Calif 1300 ft

5 Aug FW/OR Red/x banded at Coffee can nest
~~FW/OR~~ WH/FW PK/RO ♂ 2 nestlings banded FW/x WH/x

Russell Tree Res., 2 mi NW Lafayette, Contra Costa Co., Calif 1300 ft

10 Aug Heard ♂'s singing at 0630 hours. Collected 1431-14517/
 X left ad ⁵¹⁵¹⁵⁶ BL/PK right. This is fledgling of BL/FW's at Mulberry
 tree. I collected it in a bait trap at hemlock patch
 S of Milk Thistle. Also saw FW/x BL/PK in same spot.

12 Aug Collected 1431-14521 left + PK/BK right (JIS 157) + unbanded
 JIS 158.

15 Aug Collected unbanded JIS 159 ⁵¹⁵¹⁵⁶ at Mulberry Bush. Saw
 ♀ BL/FW + FW/YL + FW/x BL/?.

17 Aug Collected ♂ PK/FW BL/BK (FWS 2031-08908) JIS 160. At
 Hemlock where 1st nest was

18 Aug Collected ♀ BL/FW OR/YL JIS 163 (2031-08933) parent of JIS 156
 Shot at Mulberry where nests were.

Captured 2031-08901 GR/FW YL/BL at hemlock patch 35 yds
 S on road from Mulberry. Re-measured and weighed

Bill length 8.97

Wing 5.77

width 5.17

Wing length 52.74

Tail length 53.72

Tarsus 17.51

midtars 18.40

hatching W/CLW

Claw 2.06 + 2.06

molt 1st 5/10's in pin, All but 5 tail feathers

fat much

remains left 1st toe
 deformed

completely in pin
 back, belly

wt 19.00 gm

Broodpatch present

21 Aug Collected 2031-08936 PK/FW BK/RO JIS 164 + 2031-08902 GR/OR FW/BK

JIS 165 both at S edge of Milk Thistle near feeding station. Also
 saw RD/FW YL/BL in same area

1

with J
1989

Journal

127

Russell Tree Res. 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft.
23 August Collected 2031-08904 ♂ ^{B^L/FW} ^{RD/GR} at M.I.K

Hindle, JIS166 - Mate of JIS163 + Parent of JIS156.

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

9 Sept Collected JIS172 (2031-08949 ^{B^L/FW} ^{GR/OR}) ♀ was E of
nest site only creeks ~3/4 mile in former territory of ^{FW/PK} ^{Y^L/GR}.

JIS173 ♂ (1431-14510 ^{FW/OR} ^{WH/PK}) shot near territory. JIS174

♂ (2031-08926 ^{GR/FW} ^{OR/Y^L})

12 ~~Sept~~ ^{October} No specimens left at station. All leaves on the willows
are gone. It snowed last week and shortly most willows
dropped their leaves then.

Albany, Alameda Co., Calif
21 Oct at noon on a bright sunny day mother and I headed
out on 580 W to the Richmond - San Rafael bridge
to 1015 to Mill Valley. stopped at Smith + Hawkis
Garden Center of E. Blithedale Avenue. From there
we headed N on 101 to Santa Rosa. We went west
out of ~~Santa Rosa~~ Cotati we took 116 west to Sebastopol.
Just N of Sebastopol we stopped at Russian River
Vineyard where they bottle Topolos wine. Their
ultrafino Zinfandel was excellent (Gold Medal winner)
nice dry rosary wine. Also had restaurant hotel
nice but we didn't stay. We spent the night with
B+B from PEO on Stoetz Road off of Harrison
Grade Road.

1 mi N of Occidental, Sonoma Co., Calif. 233 ft
For dinner mother + I went to The Blue Heron
in Suncar Mills. Moscow Road at Route 116



The
Blue Heron
Restaurant & Tavern

TOM HARGADON
Owner

(707) 865-2225

Moscow Road at Route 116, Duncans Mills, CA 95430

with, J

Journal

128

1 mi N of Occidental, Sonoma Co., Calif. 238 ft

We had a very nice meal for \$50. So get there we took the Bohemian Hwy north out of Occidental for ^{took ~ 20-30 minutes b/c of winding} ~ 10 miles to Monte Rio. At Monte Rio we went west on 116 for ~ 5 miles. The restaurant is on the S side of road in a small mall area with a small motel and General store.

22 Oct We left our B+B at 0815 hours headed N to Monte Rio again on the Bohemian Hwy. We went west on 116 toward Jenner. Saw seals on sandbar. Drove N on to Myers Grade Rd just south of Fort Ross Hwy is closed at Fort Ross due to falling rock. On Myers Grade Road we found a local glass blowing artist, mother tonight paper weight for Renee (\$20) on our return trip. We drove on Myers Grade until it led us back to Hwy near the Kruse Rhododendron park (we did not stop since it was not the right time of year for flowers.) We continued N on Hwy past Stewart's point to the Sea Ranch. We stayed at the Sargeant's B+B 5 miles north of Sea Ranch Lodge on Bossa's Reach #72 (on W side of road). Mary Jean was nice PEO lady, hostess is Gynecologist. They cabin was separate from their main cabin with nice view of ocean. Not much beach to walk on but lots of neat houses. We arrived there at 1030 hours. After checking in with the Sargeant's we took off S on Hwy to Stewart's Point. We went E out of Stewart's Point to Headstrong ~ 2 hour drive very pretty drive.

with, 9
1939

Journal

129

The Sea Ranch, 5 miles N of Stewart Point, Sonoma Co., Calif 100 ft

22 Oct

The drive starts out in Coastal Redwood Canyon. Then turns up in altitude to drier scrub oak and Madrone and finally ends in wine country. We stopped at Johnson's Vineyard (terrible wine) and at another part (E) of Johnson. I think it was Redwood Vineyards which had a very nice Gewürztraminer (\$16 for a split.) We took (128) out of Eurekaville to St. Helena. We stopped at Henry Evans botanical print shop on Pine Street (go left $\frac{1}{2}$ blk off of 128). Pine St is one of the 1st streets in Town (at the Police station). We then went ~~to~~ N on (128) to do some wine tasting. Most vineyards were closed at 4:30 pm. We stopped at Folie à deux. A small vineyard N of Krug on E side of road. Very nice 1936 Chondronay. We tried to go to Sterling Vineyard (looks like elaborate terr with a train) but they were closed at 4:30. Went to Beringer which is S of Folie à deux on (128) just before turn on W side of Road they were open until 5:00 pm. Wine was average, but had lovely gardens and restaurant looked nice. We then went back to St. Helena S on 128 to Dansk shop which is on W side of road on S side of town. We ate a wonderful Italian dinner at Tra Vigne which is directly across the street from the Dansk store. I had perlo ravioli + mother had chicken. They had great brisotti and breads. Reservations were a good idea. We ate at 6:00 and then headed back to sea ranch. Long day

with, J
1989

Journal

130

~~The Sea Ranch Bnldy N of Stewart's Point, Sausalito, Calif. 100 ft.~~

23 Oct Fueled up at gas station in Stewart's Point. Drove
N on HWY 1 to Boulda. Smell from the hotel smelled
very musty not appetizing at all. We found a nice
cal cuisine catering with small lunch + dinner service
just on N side of Boulda on HWY 1 it is on W side
of HWY 1. I think it was called Cook's Catering.
We got some very nice bread, veal, ribs, +
dessert of killer chocolate cake. Had soup there
for lunch. North of Boulda we came upon a
fancy B+B St. Orres it is ~ 4 miles N of
Boulda on E side of road see Turkeys it looks
quite Russian. Had beautiful restaurant with very
dinner service (\$27/person). Looked quite nice. We
returned to Sea Ranch and walked along the beach.
Mother had never played with kelp before, she really
enjoyed watching the tide come in. Too windy for her so
we didn't stay long. Saw Willets and Western gulls.
Sanderling at Black Turnstone. Had supper of fancy
catering and drank on Chardonnay from Folie à deux.

24 Oct left Sea Ranch at ~ 1000 hours drove down HWY 1
to Myers Grade detour, stopped at Star Blower shop
saw double rainbow just N of Jenner. Went on
to Sir Francis Drake at Olema west E. to HWY 101
S into SFO. ate lunch at Port Deli on Sanchez at
16th and went to Joanie Chan outlet at 777 Florida
St just 2 Bldgs up ^(at or S) from 16th. Got home ~ 3:00 pm
had to take San Rafael bridge because of the earthquake on
the 17th of October knocking out Bay Bridge.

with, J
1989

Journal

131

Tucson Pinal Co. Arizona

28 Oct For \$127 I flew from Oakland to Phoenix to Tucson on America West. Carla Cicero picked me up at airport at 3³⁰ pm. We went grocery shopping at Abco on Valencia Road (took a left out of Airport parking lot then another left onto Valencia went ~2 miles to grocery store.) We left Tucson at ~5⁰⁰ pm headed E on Interstate 10 to Willcox. We fueled up at Chevron just off Interstate big gasing area for trucks etc... Lots of motels and pizza hut (Motel 6, Best Western and Comfort Inn). We then went SE out of Willcox on route 186 ~39 miles to Coronado Natl forest. We stopped at Chiricahua Natl Monument hds but they were closed so we headed into the forest, stayed in one of the 1st campgrounds we came to. Lots of deer hunters and RV's everywhere! We arrived ~9⁰⁰ pm

29 Oct Coronado National Forest, Cochise Co. Arizona

Woke to the sound of Gray-breasted Jays. Very small hills all dark faces. Saw flock of Crossbills, some of much deeper than those at Sagehen. Got back on road toward Portal. Went past Onion saddle and stopped at Campsite just W of Silver Peak. We got three Plain thrice in that area saw 2 Bridled. In the afternoon we went further down road past Portal onto the Y80 going S to Price Canyon Road. Beautiful area of the Park. At end of Road is trail lead to Gabriel Peak (~6 miles) looked cool, deep canyon steep hills with PJs and Oaks. Had to

with J
1989

Journal

132

Coronado National Forest, Cochise Co. Arizona

29 Oct drive thru private ranch to get back into National Forest land. It looked like a bad place for Titi so we went back to Silver Lake area.

30 Oct We hiked all day 0730 hours to 1500 hours did not see any Plain Titmouse only Bridled. shot a

no Ring-tailed
just past area
in Hutton's.

Hutton's Vireo in dry river bend it was in Oak canopy, for Ned. We drove to Portal to get lights in camper fixed. We had turned out a fence.

Saw Cardinals + Curve-billed Thrashers at General Store. We then went N out of Portal toward Paradise, Camped in PJ along the road. Saw Sage Thrashers, Curve-billed and

31 Oct Crissal Thrashers. Lots of Plain Titmouse on W side of road, more bridled on Oakier Eastern side. We got 6 birds, ~~Saw Ring-tailed Cat in canyon~~ ^{oak and} ^{yellow pine}

1 Nov hunted same area again. I was on E side of road saw no Plain Titmouse, 3 Bridled. Mountain Bluebird, Sharp-shinned Hawk at a bear cub. Left in the late afternoon for Willcox. We stayed in Comfort Inn (\$45) ate at Pizza hut. Skinned Titi until 200 AM.

2 NOV Willcox, Cochise Co. Arizona

Had continental Breakfast in hotel lobby (Stale donuts, horrid coffee.) Headed W on 10 interstate for Yuma. Arrived in Yuma ~230 pm (~6 hours from Willcox). Called the refuge from Yuma (602) 783-3371. The manager Will Nydecker was on

Will Nydett^{Refuge}er, Manager

Imperial Natl Wildlife Refuge

P.O. 72217

~~Martinez Lake~~ Martinez Lake, Arizona

85365

602-783-3371

with, 9
1989

133

Journal

Yuma, Yuma Co. Arizona

2 NOV

vacation but the secretary Melody was expecting us. From Yuma the refuge is ~45 mi north. Take route 95 (16th st.) north out of Yuma (toward the Yuma proving grounds) ^{20 miles} exit on Martinez Lake Road. ^{sign to refuge} Go west (left) for ~15 miles where road will fork just after a speed limit sign. About 50 yds up on the right will be a sign to the refuge and a MCAS go right down this dirt road ~4 miles to where the road forks - signs point to right for refuge and straight to MCAS. Go right see refuge Hdq's and residences. Melody had left by the time we arrived ~3:30 but she said Bob + Eddy in the shop (around the back road of Hdq) would be able to help. The guys were working on a farm field to support the geese population. Eddy offered to take Carla + I out in a boat the next morning. He also directed us to a cattail marsh on Calif. side we could drive to that night. We took (95) south to Imperial Dam road (see Army installation with huge guns marking entrance). Go west down this road ~2 miles. Just over the dikes go right on Senator Wash Road ^{1/2 mile}. Then take Ferguson Rd to ^{45 minutes} Ferguson Lake it is ~1 1/2 hour drive from the refuge. No song sparrows. Lots of cattails, with white-crowned + Lincoln's but no Song. They let us stay in refuge residences. They were very comfortable. Apartments 2 bedrooms with mattresses, bathroom, stove and big kitchen.

Ken Voigt, refuge manager
Salton Sea National Refuge
P. O. 120

Calipatria Ca
92233

619-348-5278

M, J
1989

Journal

134

Imperial National Wildlife Refuge, 20 miles N of Yuma, Yuma Co, Arizona

3 Nov

^{1000 hours}
Eddy took us to Ferguson Lake in large Police boat. We found no sparrows. We returned to refuge and were outfitted with flat boat with 8 hp outboard. Again we went to hunting area along Ferguson Lake where there were many cattails saw and heard no song sparrows. We returned to refuge ~ 3:00 pm showered and headed west on Interstate 8 out of Yuma to El Centro, California. 7 miles W of El Centro we exited North onto Forrester Road. We went North thru Westmoreland. 8 miles north of Westmoreland see signs to refuge. At the sign that leads 3 miles to Salton Sea Natl Refuge arrow points straight the main road curves sharply to the right. ~~Do~~ Do not turn, stay straight. On left see ~~the~~ Unocal Geothermal Plant. ^{1 mile further is refuge} The road will T at the refuge. Go left (S) for 25 yds to Hdq. Ken Voget is Refuge manager. Chris (from Humboldt / Yuma Ralls) and Ramon are refuge employees. We arrived 3 hours (7:30 pm) after we left the Imperial Refuge.

4 Nov Salton Sea National Refuge, 7 mi NW Calipatria, Imperial Co. Calif - 80k

We banded birds (Black Phoebe) with Ken, Chris and Ramon at 7:00 am. At 0800 hours Chris took us out in refuge vehicle. We walked along dike for 2 hours saw only dark song sparrows. Saw 2 Saltmies in cattails along dikes. Lots of Savannah + Orinorhynchus sparrows. At 1000 hours Chris drove us to Bruchard Bay. It is 1/2 N of intersection of Bruchard and Foulkes road.

with, &

1989

Journal

135

15 miles WSW of Calipatria, Brackend Bay Salton Sea, Imperial Co, Calif - 68 ft
 4 NOV 15 miles WSW of Calipatria. This was a thick marsh
^{water 2"-12" deep}
 of cattail + salt cedar on W side of road. The
 E side had been drained + turned. Chris said it
 was to be replanted soon. The sparrows were thick in
 the salt cedar. They responded to playback (♂ sang and
 many individuals "chirped") of Sage Sparrows. The
 darker races wintering in the area did not respond
 to playback vocally. I shot 3 saltators and 1 darker
 form. Carla shot 3 saltators, in 3 1/2 - 4 hours of hunting.
 We stayed in a 500 yd² area. The Salton Sea bordered
 us to the N and we only ventured 200-400 yds to the S
 and another 500 yds E into marsh. Heard SORA S and
 saw American Bittern and Black-crowned night Heron
 We left the refuge ~ 2:00 pm headed north out of Calipatria
 on route 111 (past date farms and Dole fruit factory). Hitchhiked
 up with Interstate 10 at Indio, we took I-10 to I-5
 in L.A. Then north to Bakersfield, just before Bakersfield
 we went W on (119) camped on BLM Land 3 miles
 outside of Tugman. Saw K.T. fox, heard Burrowing owl
 (Bernie Rejter, id) yipping. Skinned sparrows until
 2:30 AM.

5 NOV 20 miles NE of Taft, Kern Co., Calif 92 ft off of (119)
 Left the area 0800 hours arrived Berkeley 1 pm.

J. I. Smith

1988-1990

Species Accounts

Smith, J

Pygmy Owl

25 Feb 1990 Landels-hill Big Creek Reserve, S of Lucia, Monterey Co., 2000 ft. elev.

Up ~200 ft from creek bottom along the road from the house
~1 mi or 1 1/2 miles. The vegetation grows up as you climb the

trail. I heard the owl giving the slow monotone "hoo-hoo-hoo"

The sound of the "hoo" has an airy quality like a rubber
doll when squeezed at the middle, but not so squeaky.

Quite a breathy tone. It also did a very melodic
"rattle-cha" of a Golden-fronted Woodpecker. It came in

~10 yds from me when I imitated it with a whistle.

It is a diminutive owl approximately 5-6" in length. The
body is stocky, but the tail is narrow (1" wide) for the breadth

of its chest. It is a russet colored back, the belly is predominantly
white with streaks of russet, the tail is dark with white bars

when it flies it looks like a Varied Thrush --- broad body, long
wings but short tail. When I called it in it perched ~12' high

in a juvenile tan-bark oak(?). It then flew to a larger
Redwood where it perched near the trunk (~1') at 20-25' high.

The ~~eyes~~ irises were bright gold surrounded by dark pupils.

The feet were yellow as well as the beak. The back is olive
brown not quite russet, the white streaks start ~ at the tips

of the 1st's and continue up ~1" but then back looks solid.

Eye brows are flecked white on brown. It perched in a oak

~20 yds from me (it is 20' up) it had its back toward me

but would rotate its head all around to look at me

as I called to it. Stellar's Jays were quite noisy in

the area dwarfing the owl in comparison of body size.

It has dark patches⁽²⁾ on nape that look like eyes.

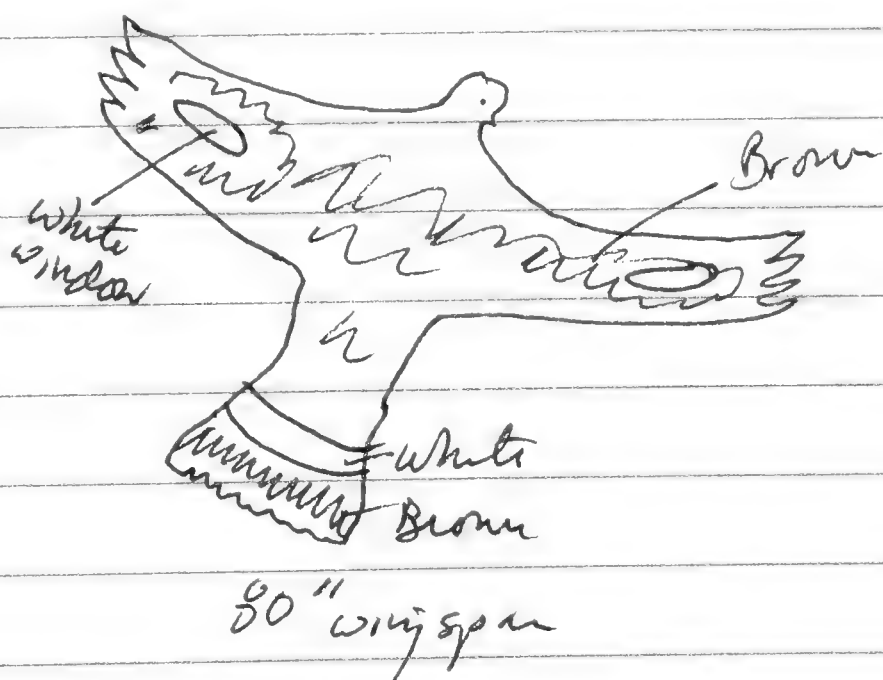
Smith, J

Golden Eagle

15 December 1988 Zuni Indian Reservation McKinley Co. New Mexico

2:38pm spotted immature soaring over pond on NE side of town before Black rock.

2 Ravens were flying within 15' of the Eagle. The one Raven I observed pulled its leg away from the tail as if it were going to parachute down onto the eagle but in reality it only dropped to w/in 6-8'. The Golden Eagle was easily identified as immature by distinct white tail band ~3" from dark tip and white windows on underside of wings.



with, J

Williamson Sapsucker

17 June 1938 Penny Pine, Tahoe Natl. Forest 1.5 mi S of Sagehen Field Station,
Nevada Co., Calif

Spotted a male and female. 1st saw ♀ thought it was flicker though breast was too yellow. It (♀) flew to dead pine at ~ 2' off the ground no sound. 5:00 pm, sunny day. ♂ came in after ♀ and soon flew to same dead tree. Back ♀ male is very black. Had red on chin and white eyelids and wing patches a little smaller than a flicker. Large (1 1/2") strong feet.

(E. Pie Mesa)

16 December 1938 ^{20 mi} Indian Reservation, McKinley Co. New Mexico

Found this bird in top of 35-40' fir. It tap slowly, methodically and quite quietly. Sounded like picking at wood not pounding.

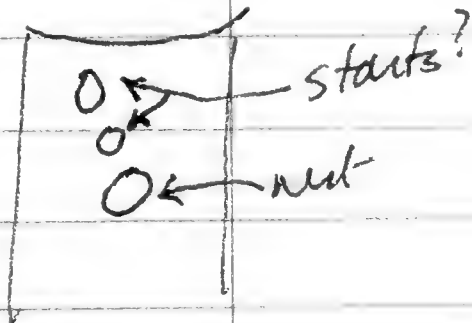
with, &

White-headed Woodpecker

20 May 1989 ~~Sagehen Creek Field Station, Nevada Co., California 6300ft~~

In dead pine it was about 6' off ground it then flew
up higher. head was brilliant white with Red nuchal
patch. Back all Black. It was staying within 20yds
of the creek flying from live to dead pines.

21 May 1989 Found nest hole. Flushed ♂? ~8' up there is
a series of 3 holes. Hole Pine tree. Also
seen to be House Wrens in the



vicinity. The nest tree is 40yds
W of FW/GR RD nest at E ~ 75
yds from PK/FW

Smith, J
1999

Harry Woodpecker

19 June

Penny Pines, 1.5 mi S of Saylor Creek field station Nevada Co, CA
Harry male is making an incredible racket
"Cha-cha-cha-cha" accelerating sometimes
ending with a peck. He started this as
I moved into an area of dead pines, and he
has been following me for 15 minutes or at
least he appears to be following me. He will
call from about 25-30' off the ground. He
corks his head around at me the way
Golden-fronts used to do. He will put
the tree b/t him and me and then peck around
the corner, or he'll be on the tree sideways
to me (i.e. I have side view) and he will pull
his head away from the tree and turn it so one
eye and then the other looks at me. It is 10:23 am
I have the parabola with me perhaps he is nervous
about that.

Smith, J

Caliope Hummingbird

21 May 1989

Sagehen Creek Field Station, Nevada Co., California 6300 ft

0700 hours, 250 yds east of station in a Willow. Caliope's

will make a full circle ~~to~~ display like an Anna's

but they have a very smooth call a ^{Buzz} ~~7000000000~~ very
hi pitch and soft melodic not rappy. ^{except at beginning} The color

of the male's gorget fans out from the throat to
the breast like paint brush strokes, very brilliant
crimson.



Back is green

like an Anna's, side of breast appear rufous.

Smith, J

Mountain Chickadee

18 June 1938 Sagehen Creek Field Station, Sierra Co., California

In a dead hollow pine tree 20' S of Sagehen Creek just west of the campground of the Natl forest ~ 500 yds. Found a nest of Mountain Chickadee 7' up in hole. Chickadee sounds like a house Black-capped and also much slower "Chick - adee - adee - adee"

White eye on eye is very thin hard to tell if it is just black underneath or in



When I walked past the tree at least one indiv bugged out of the hole and I felt the wind displace the hair on the top of my head.

Smith, J

Townsend's Solitaire

West Branch Main
Galestina

16 Decade
1938

Zuni Indian Reservation, ~~Bottom~~ Canyon, 6400 ft.

McKinley Co. New Mexico

Bright, sunny day ~50, light wry, high
series clouds. Heard Townsend's solitaire
as we descended into the canyon of sandstone
and Dry Fir. The call note is a clear
high tone (~c[#]) can be repeated in
succession but not held long. Its call
is a clear, brilliant "whoop-dee-doo!" rising
at the end, dipping in pitch in the middle.
John Trochet said that they hold territories
all winter long so they will sing regularly.

Smith, J

Northern Shrike

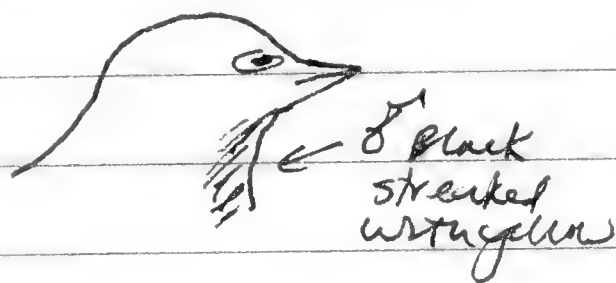
6 December 1988

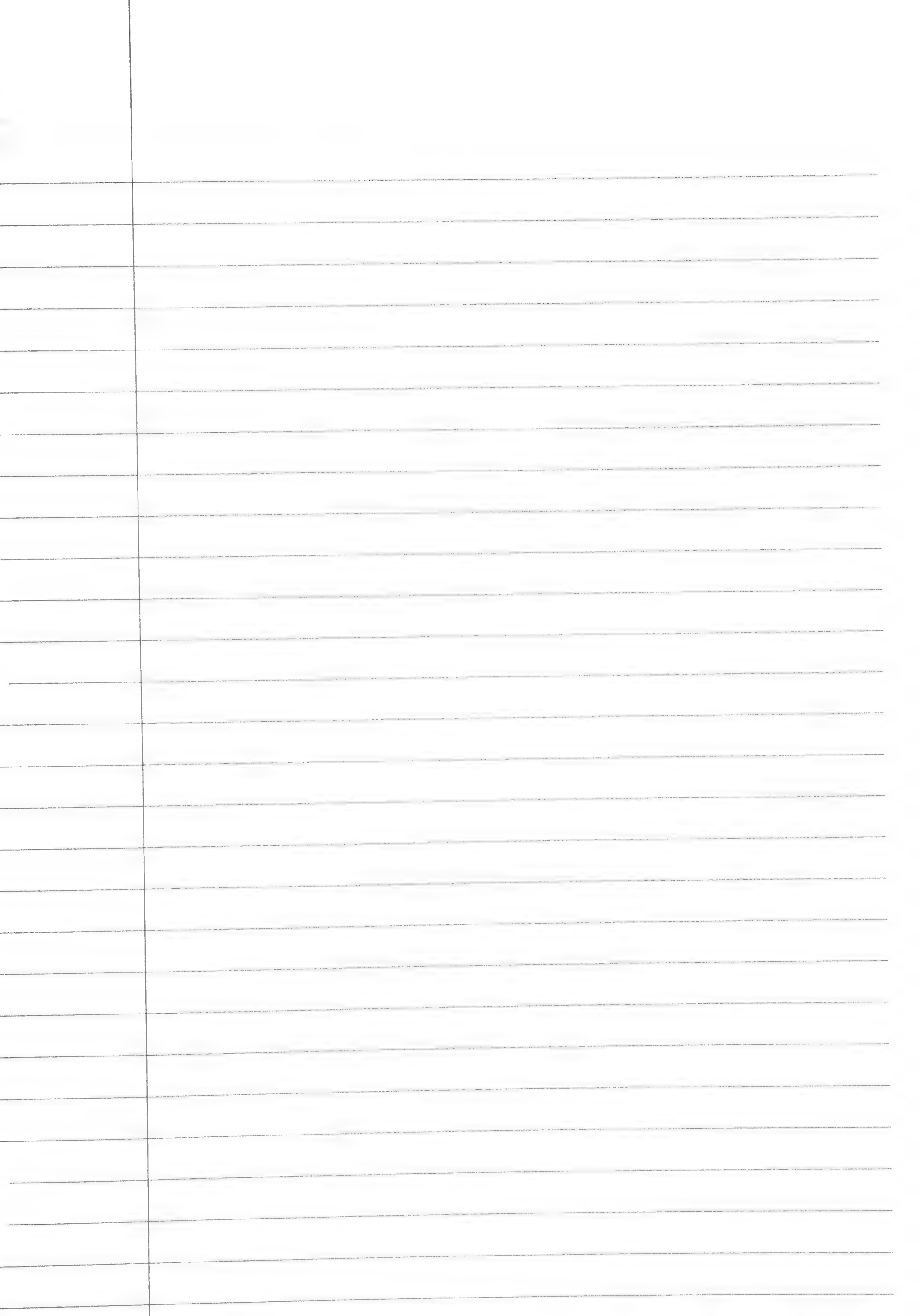
Zuni Mts, McKinley Co. New Mexico
In Pinyon-juniper savannah

Smith, J

Hermit Warbler

10 July 1988 Perry Pines, 8.5 mi S of Sycamore Creek field sta. Nevada Co. Calif.
Saw ~3 pairs 12 juveniles were seen following adults. I recognized the juveniles by the mottled green check patch on a predominantly yellow cheek. All individuals had white bellies, 2 white wing bars on blue-gray mantle and some of them had black throats of a ♂.
They did not call I only heard sipping sounds. Heads are predominantly yellow.





10/12/12
10/12/12

